

EXHIBIT A

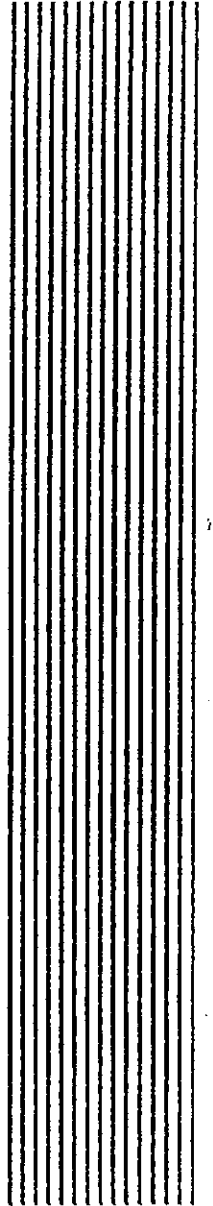
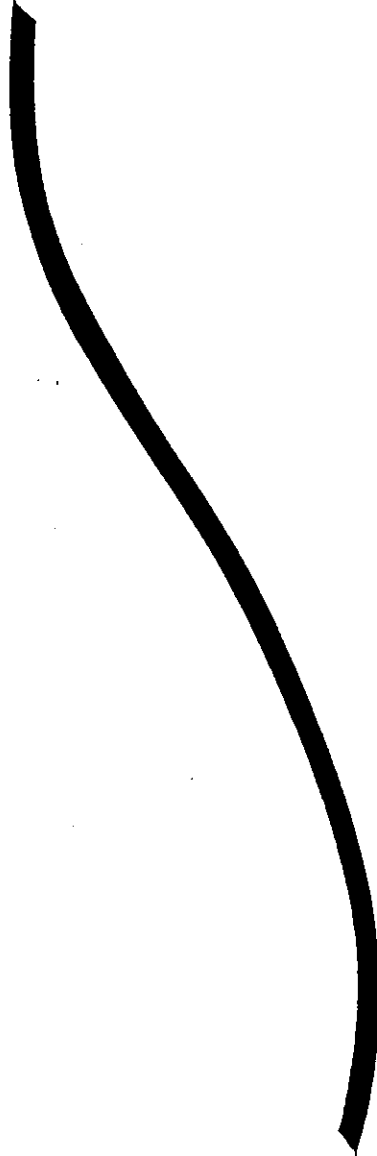
(FCC Ref. 2.1033(b)(3))

"Installation and Operating Instructions
Furnished to the User"

*Facsimile Transceiver with the Printing System,
Model TF 471 with Serial Interface
FCC ID : BJI0H-98002*

TOSHIBA

**FACSIMILE
TF471
OPERATOR'S MANUAL**



Read through this manual before using the machine. Keep the manual in a convenient location so that you may refer to the manual whenever necessary.

U. S. A.

WARNING FCC Notice: Part 15

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

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

WARNING FCC Notice: Part 68

This equipment complies with Part 68 of the FCC Rules. On the rear of this equipment is a label that contains, among other information, the FCC Registration Number and ringer equivalence number (REN) for this equipment. If requested, this information must be provided to the telephone company.

The REN is used to determine the quantity of devices that may be connected to the telephone line. Excessive REN's on the telephone line may result in the devices not ringing in response to an incoming call. In most, but not all areas, the sum of the REN's should not exceed five (5.0). To be certain of the number of devices that may be connected to the line, as determined by the total REN's contact the telephone company to determine the maximum REN for the calling area.

If your facsimile machine causes harm to the telephone network, the telephone company will notify you in advance that temporary discontinuance of service may be required. But if advance notice is not practical, you will be notified as soon as possible, also, you will be advised of your right to file a complaint with the FCC if you believe it is necessary.

The telephone company may make changes in its facilities, equipment, operations, or procedures that could affect the operation of the equipment. If this happens, the telephone company will provide advance notice in order for you to make the necessary modifications in order to maintain uninterrupted service.

If you experience trouble with this facsimile machine, please contact

TOSHIBA AMERICA INFORMATION SYSTEMS, INC.
Electronic Imaging Division
9740 Irvine Blvd.
Irvine, CA 92618-1697

for repair/warranty information. If the trouble is causing harm to the telephone network, the telephone company may request you remove the equipment from the network, until the problem is resolved.

The equipment may not be used on coin service provided by the telephone network, connection to Party Line Service is subject to state tariffs. (Contact the state public utility commission, or corporation commission for information.)

This device is equipped with a USOC RJ11C connector.

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

In order to program this information into your fax machine, you should complete the setup procedures listed for station ID number and name on pages 39 and 40 in this manual.

States that this equipment if it uses a telephone receiver is hearing aid compatible.

NOTICE: The Industry Canada label identifies certified equipment. This certification means that the equipment meets telecommunications network protective, operational and safety requirements as prescribed in the appropriate Terminal Equipment Technical Requirements document(s). The Department does not guarantee the equipment will operate to the user's satisfaction.

Before installing this equipment, users should ensure that it is permissible to connect a facsimile to the facilities of their local telecommunications company. The equipment must also be installed using an acceptable method of connection. The customer should be aware that compliance with the above conditions may not prevent degradation of service in some situations.

Repairs to certified equipment should be coordinated by a representative designated by the supplier. Any repairs or alterations made by the user to this equipment, or equipment malfunctions, may give the telecommunications company cause to request the user to disconnect the equipment.

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

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

The Ringer Equivalence Number of your facsimile is 0.7

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

TOSHIBA OF CANADA LIMITED
Office Product Group
191 McNABB STREET
MARKHAM, ONTARIO L3R 8H2

AVIS: L'étiquette d'Industrie Canada identifie le matériel homologué. Cette étiquette certifie que le matériel est conforme aux normes de protection, d'exploitation et de sécurité des réseaux de télécommunications, comme le prescrivent les documents concernant les exigences techniques relatives au matériel terminal. Le Ministère n'assure toutefois pas que le matériel fonctionnera à la satisfaction de l'utilisateur.

Avant d'installer ce matériel, l'utilisateur doit s'assurer qu'il est permis de le raccorder aux installations de l'entreprise locale de télécommunication. Le matériel doit également être installé en suivant une méthode acceptée de raccordement. L'abonné ne doit pas oublier qu'il est possible que la conformité aux conditions énoncées ci-dessus n'empêche pas la dégradation du service dans certaines situations.

Les réparations de matériel homologué doivent être coordonnées par un représentant désigné par le fournisseur. L'entreprise de télécommunications peut demander à l'utilisateur de débrancher un appareil à la suite de réparations ou de modifications effectuées par l'utilisateur ou à cause de mauvais fonctionnement.

Pour sa propre protection, l'utilisateur doit s'assurer que tous les fils de mise à la terre de la source d'énergie électrique, des lignes téléphoniques et des canalisations d'eau métalliques, s'il y en a, sont raccordés ensemble. Cette précaution est particulièrement importante dans les régions rurales.

Avertissement: L'utilisateur ne doit pas tenter de faire ces raccordements lui-même; il doit avoir recours à un service d'inspection des installations électriques, ou à un électricien, selon le cas.

L'indice d'équivalence de la sonnerie de ce matériel 0.7

AVIS: L'indice d'équivalence de la sonnerie (IES) assigné à chaque dispositif terminal indique le nombre maximal de terminaux qui peuvent être raccordés à une interface. La terminaison d'une interface téléphonique peut consister en une combinaison de quelques dispositifs, à la seule condition que la somme d'indices d'équivalence de la sonnerie de tous les dispositifs n'excède pas 5.

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FEATURES

- **High speed transmission**
A document is transmitted in 14.4kbps communication mode by using 8bit CPU and soft coding.
- **FAD operation**
Incoming Messages (ICM), Outgoing Message (OGM), memo message, and conversation can be recorded for 15min. all together.
- **Digital Speakerphone**
You can talk on the telephone without holding the handset.
You can select the volume level from 0 to 7.
- **Thermal Transfer**
The unit produces plain paper recording by thermal transfer printing. The plain paper is easier to write on with any writing tool (pencil, ball-point pen, etc.) than with thermal recording paper. Printed fax receptions can be filed and stored for long periods without copying.
- **Error Correction Mode**
For accurate data transmission, the unit is equipped with CCITT Error Correction Mode (ECM). This sophisticated communications protocol allows compatible facsimile machines to check transmissions for static or signal errors. If any are detected, the unit will automatically retransmit defective blocks of data, ensuring that an accurate copy of the outgoing document arrives at its intended destination.
- **One-touch and Abbreviated Dialing**
These convenient features allow you to store phone numbers which you call frequently. You can send documents to these units without dialing the phone number each time.
- **Multi-Address Transmission**
The document can be sent to multiple parties using one scan operation.
- **ITU SF (SUPER FINE) Mode***
You can transmit detailed drawings using SF (0 pels/mm x 15.4 Vmm) mode.
 - Among compatible models
- **Memory Reception**
When the recording paper runs out during reception, your unit stores the reception documents into memory instead of printing them out.
- **Remote Reception**
You can start reception from another telephone connected to this unit in a remote location.
- **Convenient Copying Feature**
You can use your unit as a copier, to duplicate up to 10 pages at a time.
- **Communication Journal**
Your unit keeps a record of documents sent and received.
You can print where your documents are going to and coming from, telephone numbers stored in memory, and more.

ABOUT THIS MANUAL

Please read this manual before using your unit. It contains important information for setting up and operating your unit.

The information you need for set-up is listed in the manual's Installation section. You can change control settings to suit your needs at any time by following instructions in the Basic and Advanced Functions sections of this manual.

The manual also describes how to use the facsimile's many features.

The Troubleshooting and the Care and Maintenance sections contain information to help keep your unit in excellent operating condition.

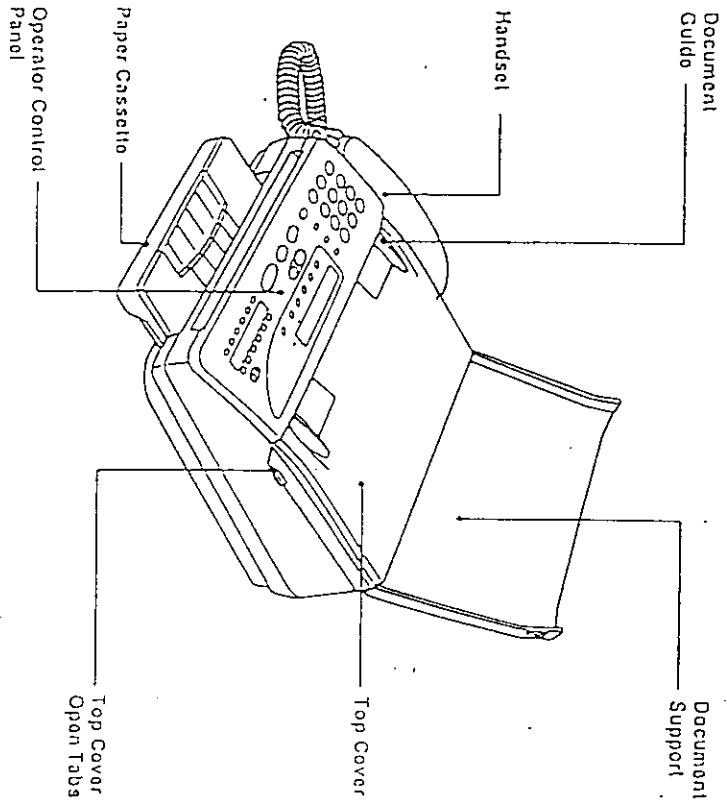
CARE AND MAINTENANCE

If repairs are necessary, always have them serviced by an authorized TOSHIBA service representative.

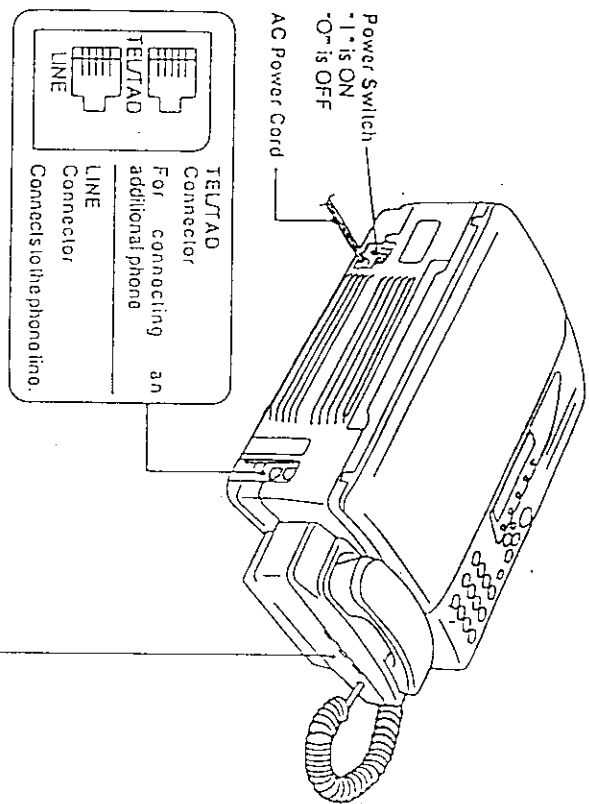
- Protect your unit from excessive heat and moisture. If the room temperature rises above 95°F (35°C), normal operation may be rendered impossible. Allow proper ventilation. Do not use this unit in an enclosed cabinet or other confined location.
- Keep the unit cover closed, except when you must open it for adjustments. Then follow instructions in this manual.
- Use a clean, dry (or slightly damp) cloth to clean the exterior. Do not use soaps, detergents, abrasives, glass cleaners, or similar products.
- Do not spill liquids in or on the machine cabinet.
- Keep paper clips and staples away from the unit. Small metal objects that fall in your unit may damage it.
- Do not bump or drop your unit.
- Handle recording paper and ink film carefully. Store them in a cool, dry place, away from direct sunlight.
- When the room temperature drops below 39.2°F (4°C), normal operation may be rendered impossible. Do not raise the temperature suddenly; dew condensation might cause paper to jam or mar the document quality.
- If the unit is cold, the receiving or copying document and the journals may be print out with light contrast.
- Pressing the handset too strong may damage the handset, so care will be necessary.

INTRODUCTION - FACSIMILE PARTS, LOCATIONS AND FUNCTIONS

Front View

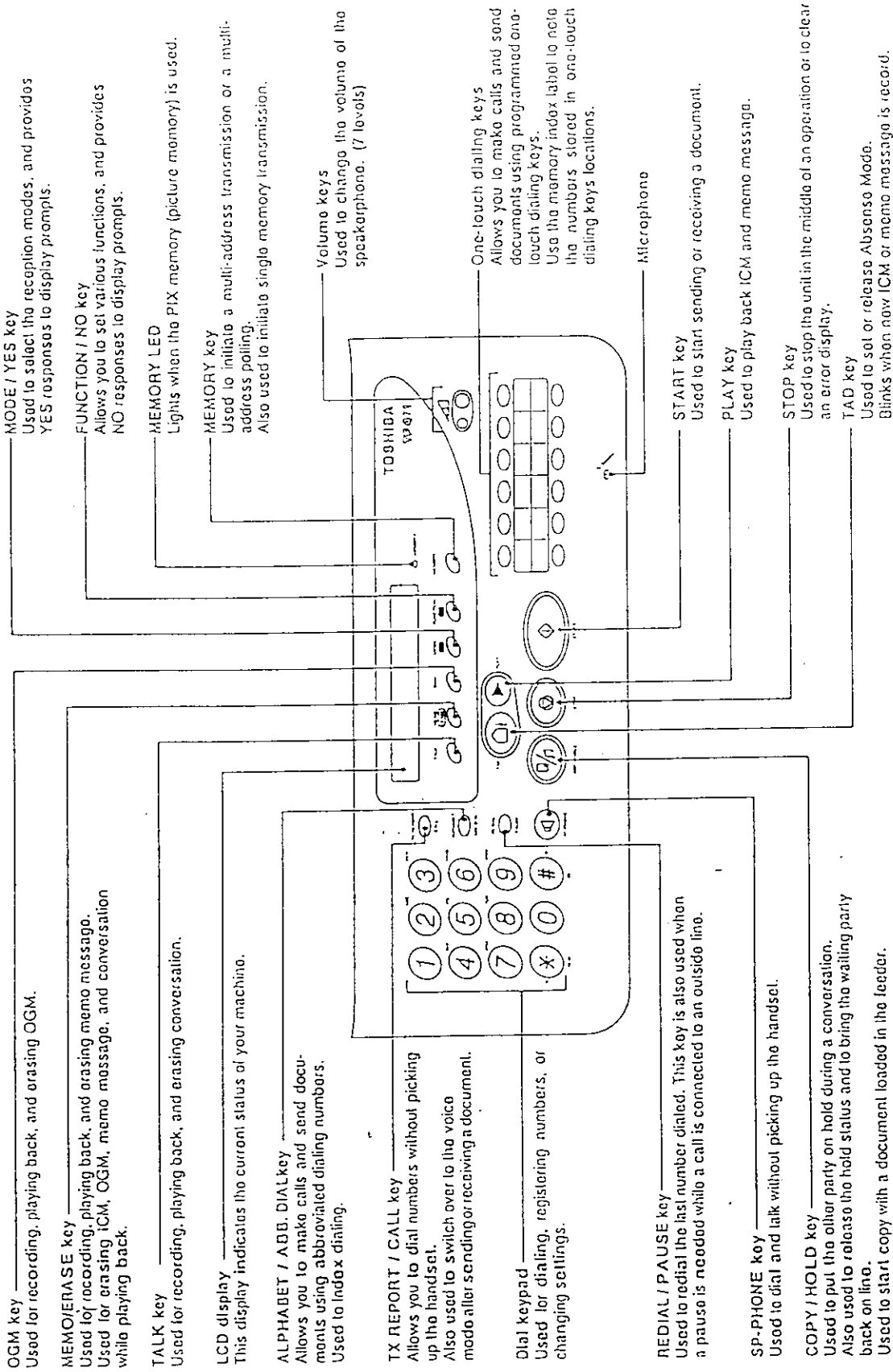


Rear View



<p>MF/DP Select Switch</p> <p>Used to select type of dialing desired: MF: Multi-frequency (T: Touch tone) DP: Dial Pulse (10)</p>	<p>Incoming Volume Control Switch</p> <p>Used to adjust the voice volume of incoming calls. : LOW (Standard) : HIGH (High)</p>	<p>Ring Volume Control Switch</p> <p>Used to adjust the volume of the telephone ringing signal. If this switch is set at OFF, the telephone ringing signal will not be heard.</p>
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OPERATOR CONTROL PANEL

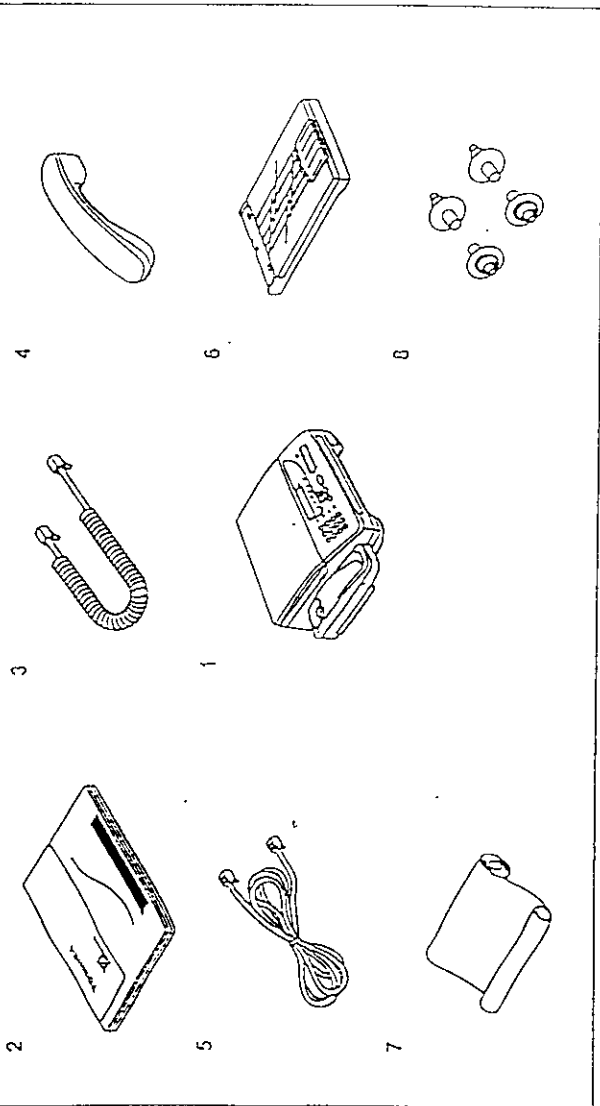


SETUP — UNPACKING

1. Unpack the carton.

2. Make sure you have everything.

3. Select a unit location.



Check the box and report any damage to the delivery service. Save the packaging materials for future use.

Check the items in the carton against the following packing list to make sure all the components are present. If anything is missing, contact the point of purchase immediately.

Packing List

- 1. Fax unit
- 2. Operator's Manual
- 3. Handset cord
- 4. Handset
- 5. Modular cord
- 6. Paper cassette
- 7. Ink film (15m (49 ft))
- 8. Film adaptors (1 set)

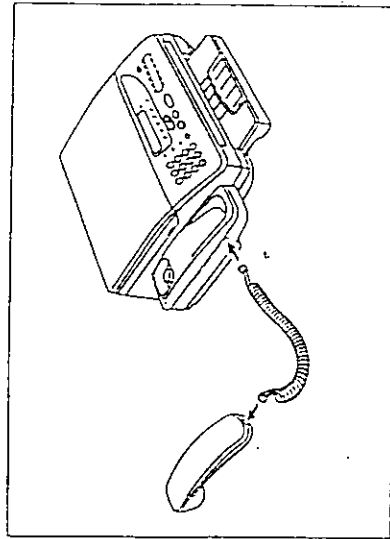
Install your unit:

- On a flat surface.
- Away from direct sunlight, dust, extreme heat and humidity, and vibration.
- Away from sources of strong electrical or magnetic fields, such as televisions or radios.
- Within reach of an electrical outlet. Use an outlet not shared with equipment that generates electrical noise or consumes large amounts of electricity, such as an air conditioner.
- Within reach of a telephone socket. Use a dedicated, single-line telephone connection.
- Allow for adequate ventilation. The rear and sides of the unit need to be clear to allow proper air flow to the unit's power supply.

INSTALLING YOUR UNIT

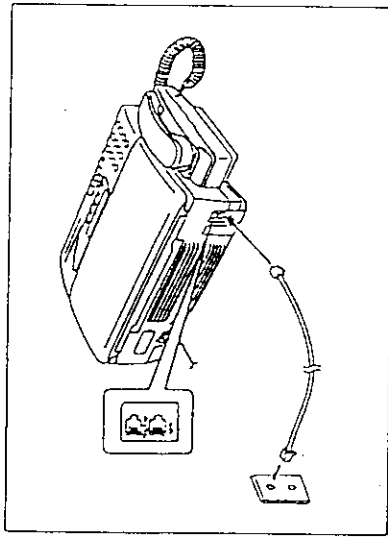
Connecting the Telephone Line

1 Connect the handset cord.

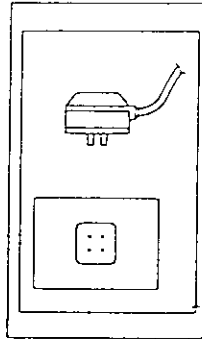


Insert one end of the handset cord into the jack on the handset and the other end into the jack on the left side of the unit.

2 Connect the telephone line.



Connect one end of the supplied 2 m (78.1 in) telephone cord to the jack marked "LINE" located on the back of the unit and the other end to a standard modular wall jack.

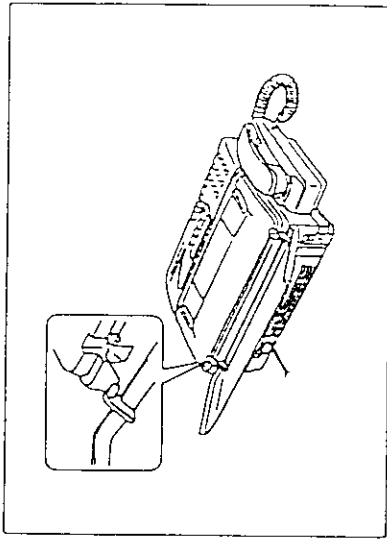


If your jack is a 4-prong type, you will need to purchase a 4-prong adaptor.

If you have neither the standard modular jack or the 4-prong jack, you may have your local telephone company install a modular jack for a fee, or purchase and install your own jack.

Document Support

Install the document support.

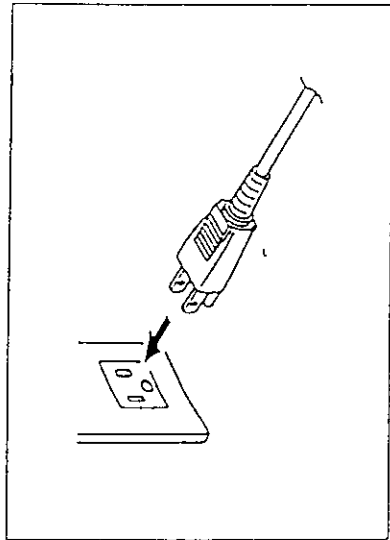


Attach the tabs of the document support into the slots on the back of the unit.

(The document support is already installed when you unpack the carton.)

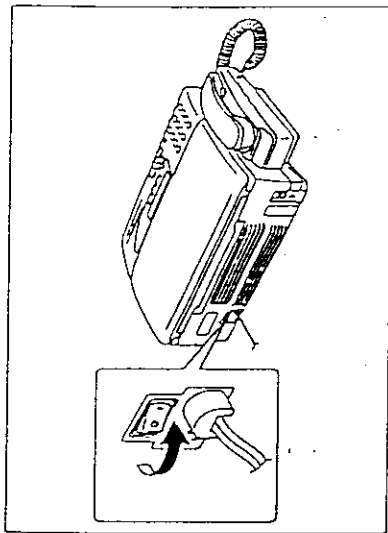
Connecting Electrical Power

Connect the AC power cord



Connect the AC power cord to a 120 VAC electrical outlet.

Turn the power on



Turn the power on.

SET UP

INSTALLING THE RECORDING PAPER AND INK FILM

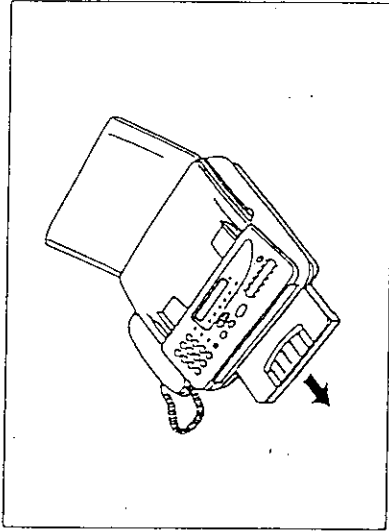
Install the recording paper and/or the ink film when "PAPER EMPTY" and/or "INK FILM EMPTY" appear on the LCD display.

NOTES:

1. For the best results, use TOSHIBA ink film only.
2. Store facsimile paper and ink film in a cool dry place, protected from direct sunlight.
3. Some papers print better on one side than the other. If you encounter weak image try turning the paper over and printing on the opposite side.
4. Thermal transfer ink film will transfer best with a very smooth surface paper. Textured papers do not image well.

Installing the Recording Paper

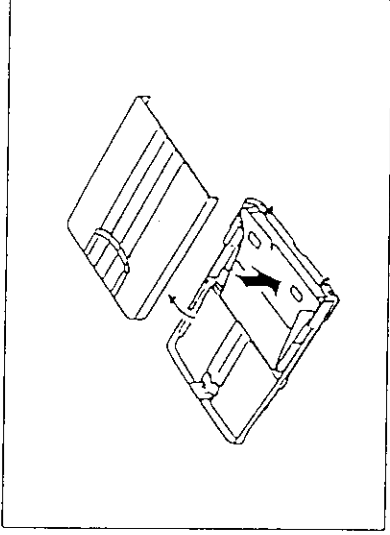
1. Remove the recording paper cassette from the machine.



Keep the power ON.
Pull the recording paper cassette out as shown above.
Support the cassette on the sides while sliding and lifting the cassette out of the machine.

NOTE:
Remove the recording paper cassette from the unit completely.

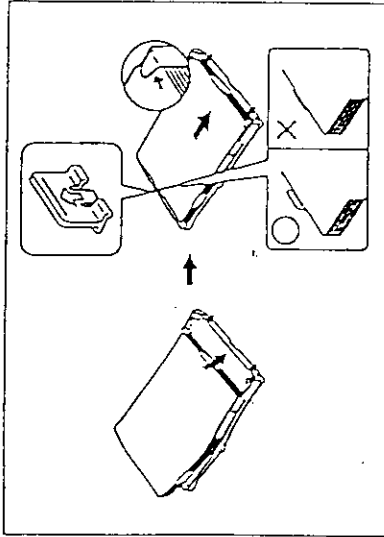
2. Push down the bottom plate.



Press down and latch the cassette pressure plate.

Installing the Recording Paper - cont.

3 install the recording paper



Take 160 sheets of recording paper and flex the bundle with both hands a few times to separate the sheets.

Holding the papers so that the edges are straight and parallel, place the recording paper into the cassette lead-edge first. Align the lead edge of the paper under the separator tabs on the cassette and allow the trailing edge of the paper to slip in to position.

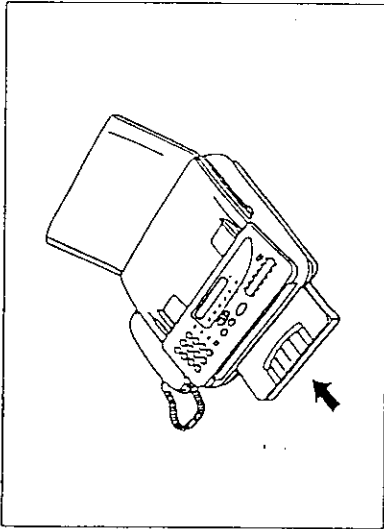
IMPORTANT:

Do not stack the paper above the 11mm mark indicated on the back fence of the paper cassette. Too much paper can cause paper jams.

NOTE:

Recording papers of 160 sheets can not be accepted in the paper cassette, if the paper is thick.

4 install paper cassette



Slide the paper cassette into the machine with both hands. Make sure the paper cassette is properly positioned on the side rails in the bottom of the machine.

IMPORTANT:

Do not use creased, folded, wrinkled, or damp sheets of paper.

Installing the Ink Film

The remaining length of the ink film is checked by software by counting the steps of the ink film motors. When the remaining length becomes less, the LCD displays the warning. You need to reset the counter when you reinstall the new ink film (100m roll). Also this feature is not useful using the supplement ink film (15m roll) packed with the unit.

When the remaining length of the ink film becomes less than 10%, the LCD displays.

INK FILM LITTLE

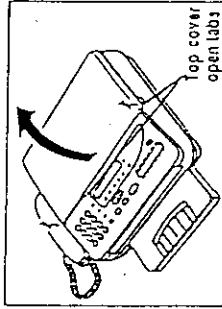
You can still print out about 30 more letter size papers. Press the STOP key to clear the warning. After the next printing is done, the LCD displays the warning again.

When the ink film is used up, the LCD displays.

INK FILM EMPTY

You must replace the used up ink film with the new one.

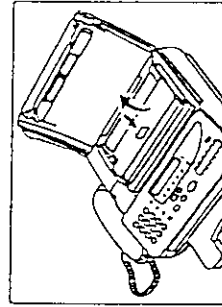
1 Open the top cover



Pull upward on the top cover open tabs, and open the top cover.

If the power is OFF, turn the power ON.

2 Open the film transport

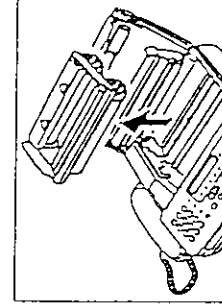


Pull the film transport release tab forwards you, and open the film transport.

NOTES:

1. Upon initial installation, remove the strip of paper inserted to protect the thermal print head during shipment.
2. Be careful not to touch the print head (Gold colored bar under the open unit) when raising the film transport.

3 Remove the ink film cassette

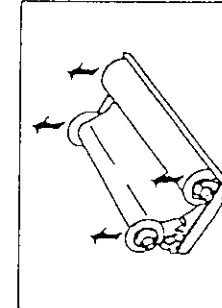


Remove the ink film cassette from the unit as shown.

NOTES:

1. Remove any recording paper remaining under the film transport.
2. If this is a reception document, it has been saved in PIX memory. It will be printed once the film has been replaced as long as power has not been turned off.

4 Remove the ink film

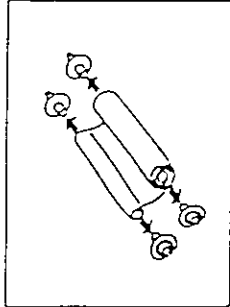


Remove the used ink film from the ink film cassette as shown.

Take note of the color coded film adapters as they will need to be reinstalled in the same order.

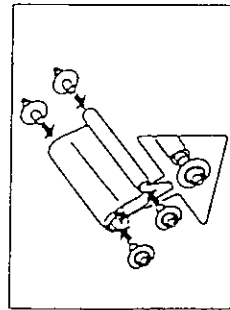
Installing the Ink Film - cont.

5 Remove the film adapters



Remove the color coded film adapters that are inserted on both sides of the used ink film.

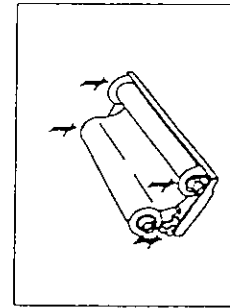
6 Reinstall the film adapters



Reinstall the color coded film adapters on both sides of the new ink film.
Insert the projections on the drive side film adapters securely to the slots in the ink film core.

NOTE:
Refer to the illustration above and insert while observing the direction of the film adapters.

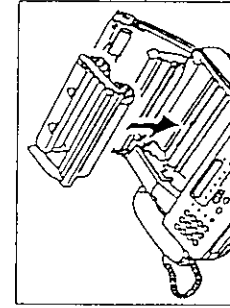
7 Reinstall the ink film to the cassette



Reinstall the ink film into the ink film cassette as shown above.
Latch the hubs securely into the cassette clips.

1. Take up any slack in the ink film.
2. If it is possible to install the film "upside down", if this occurs, your document will print blank.
Follow these instructions carefully.

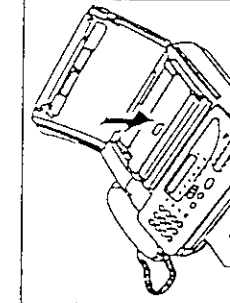
8 Reinstall the ink film cassette into the unit



Reinstall the ink film cassette in the machine as shown above.

NOTE:
Replace the film holder in the fax machine.
Ensure that the marking > on the holder is pointing to the rear (see diagram).

9 Close the film transport and top cover



Close the film transport and top cover insuring that both sides latch properly.
In the event a memory reception occurred in conjunction with running out of film, the reception will be printed out automatically.

INK FILM CHARGED ?

Installing the inkFilm - cont.

10 Reset the step counter

press the YES key and reset the counter.



NOTE:
If you reinstall supplement ink film or used ink film, this feature is not useful.
If you press the NO key, the unit does not reset the step counter.
If the new ink film is not rolled correctly, the LCD displays.

CHECK INK FILM

JUN 15 TEL/FAX 00

INITIAL INSTALLATION (BASIC)

Language Selection

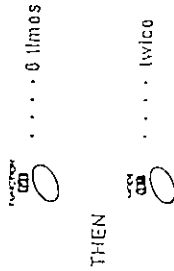
You can choose the language that is used on the LCD display and all lists printed by your unit. You can also choose the OGM language that is sent to the remote party in the TEL/FAX mode.

Let's you choose either "ENGLISH", "ESPAÑOL" (Spanish), "FRANÇAIS" (French) or "PORTUGUES" (Portuguese).

1. Display language screen

When selecting language for LCD and Lists:

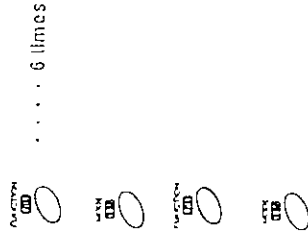
Display the language control screen by pressing these keys:



ENGLISH ?

When selecting language for OGMs:

Display the OGM language control screen by pressing these keys:



ENGLISH ?

2. Select language

Select and enter ENGLISH or ESPAÑOL, FRANÇAIS or PORTUGUES.

To select ENGLISH press the YES key.

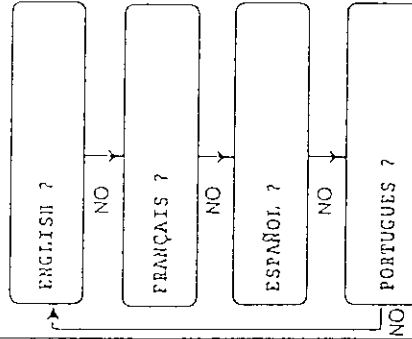


To select FRANÇAIS press the NO and YES keys in sequence.



SELECT OGM LANGUAGE ?

Press the YES key to return to the Standby Mode.




JUN 15 TEL/FAX 00

OGM Language Selection



You can also select the OGM language.

1 Display select OGM language screen

Display the flash OGM language screen by pressing the following keys:

 6 times

THEN

2 Select OGM language

Press the YES key.

ENGLISH ?

Select and onlor English or ESPANOL, FRANCAIS or PORTUGUES.

To select ENGLISH press the YES key.



To select FRANCAIS press the NO and YES keys in sequence.

ENGLISH ?

NO

FRANCAIS ?

NO

ESPAÑOL ?

NO

PORTUGUES ?

To ESPANOL press the NO, NO and YES keys in sequence.

To PORTUGUES press the NO, NO, NO and YES keys in sequence.

Press the YES key to return to the Standby Mode.

JUN 15 TEL 00

Date and Time


Your unit displays the current date when it is in the Standby Mode. It also prints the date and time on documents you send.

NOTE:



For more information on the function key, see the function key table on page 19.



1 Display date and time screen

Display the date and time control screen by pressing these keys:



 3 times

THEN

  twice

  twice

  twice

  twice

  twice

LCD DISPLAY

MM-DD-YY HH:MM

2 Enter date and time

Use the 24-hour format to enter the current time.

For example, to set the date and time to JUN 15, 1998, 6:45 p.m. Press the following numbers on the dial keypad.

①⑥①⑤⑨⑧①④④⑤

① ② ③

④ ⑤ ⑥

⑦ ⑧ ⑨

* 0 #

To correct an entry, press the NO key and reenter the number. Press the YES key when you have entered the date and time correctly.

The date and time will appear on the LCD display for 2 seconds to confirm the proper setting.



JUN 15 '98 18:45

After 2 seconds:

SET REDIAL ?

3 Return to the Standby Mode

Press STOP key several times to return to the Standby Mode.



JUN 15 TEL/FAX 00

Terminal Identification

Your unit can print your name and facsimile identification number on all documents you send. This enables remote parties to identify your documents easily.

You also have the option to add your international code to your stored telephone number. This allows the recipient to identify the country from which your documents are sent.

The terminal ID name may contain up to 20 characters.

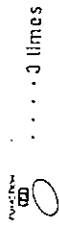
The terminal ID telephone number may contain up to 20 digits. (*key, #key and pause key are each counted as 1 digit.)

THE TELEPHONE CONSUMER PROTECTION ACT:

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

1 Display terminal ID screen

Display the terminal ID screen by pressing the following keys:



THEN

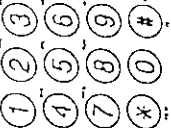


2 Enter the ID name

If you do not want to enter the ID name press the YES key and skip to step 3.



Enter the ID name using the dial keypad. (For information on storing characters, see page 18.)



Press the YES key to confirm the ID name.



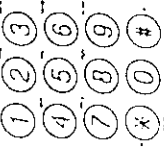
3 Enter the TEL number

If you do not want to enter your unit's telephone number, press the YES key and skip to step 4.

If you send documents overseas, press the * key.



Enter your telephone number using the dial keypad. If you want to include the international code, enter your country code (USA code is 1) before you enter your telephone number.



Press the YES key to confirm the telephone number.



NOTE:
If you send documents overseas, adding your international code (country code) to your stored ID name will enable the recipient to identify the country from which the document has been sent. The columns following the "+" sign are for the international code.

4 Return to the Standby Mode

Press the STOP key several times to return to the Standby Mode.



ID= _

TEL= _

SET DIAL TYPE ?

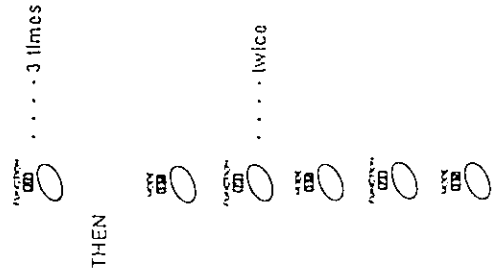
JUN 15 TEL/TAX 00

Dial Type

There are 2 types of telephone lines: DP (Dial Pulse or Rotary) and MF (Multi-frequency or Touch Tone) line. Set your unit to match your line setting. The initial unit setting is MF (Touch Tone).

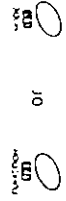
1 Display dial type screen

Display the dial type control screen by pressing these keys:



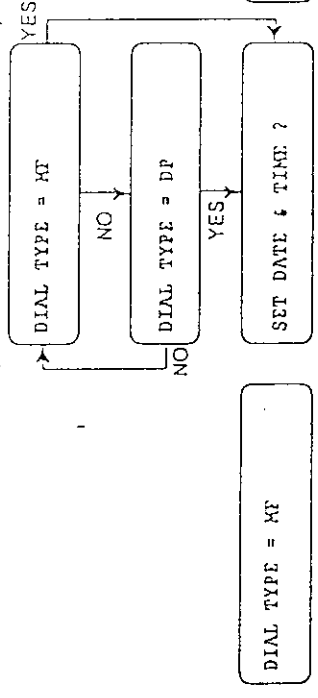
2 Select dial type

Select and enter the dial type to match your line. YES To select MF, press the YES key. To select DP, press the NO key and the YES key in sequence.



3 Return to the Standby Mode

Press the STOP key several times to return to the Standby Mode.



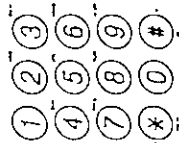
BASIC FUNCTIONS - BASIC OPERATION

Setting and Storing Names and Identifiers

Some menu options require you to select and store characters. For example, entering your company name or storing the names of remote parties for abbreviated or one-touch dialing.

1 Select characters

Use the telephone keypad below to enter alphanumeric characters (see keypad conversion table at left). Select characters by pressing the key that corresponds to the control panel. Press the key a second time to scroll to the next character for that key.



Press the # key to advance the cursor to the right.



Press the * key to advance the cursor to the left.

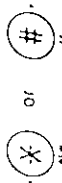


2 Enter characters

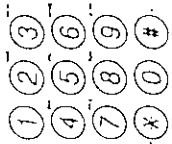
When you have selected all characters, check the LCD display to make sure they are correct. Press the YES key to store the characters.



If you make mistakes: Move the blinking cursor to the incorrect character using the * or # keys.



Choose the correct character with the following keys:



For example:

ID = TOSHIDA

Press the * key ... 2 times

ID = TOSHIDA

Press the # key ... 2 times

ID = TOSUIDA

For example: When selecting "C"

ID = _

Press the # key ... 3 times

ID = C

Press the * key ... 1 time

ID = C_

Keypad Conversion Table

Keys	Displayed Character
1	
2	ABC
3	DEF
4	GHI
5	JKL
6	MNO
7	PQRS
8	TUV
9	WXYZ
0	mark

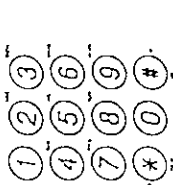
Storing Numbers

Your unit can store numbers such as those used for one-touch, abbreviated telephone numbers, date and time, and those used when setting some other control options. Use the dial keypad on the operator control panel.

Inserting pauses:
To insert a 3-second pause, press the PAUSE key once.
If your system requires a longer pause, press the PAUSE key as many times as needed.

1 Select number

When the unit is in Standby Mode or the LCD display prompts you to enter numbers, press the dial key pad keys on the operator control panel.



1

PAUSE

2 3 4

2 Enter number

Check the display to make sure the numbers are correct.

To correct an entry press the NO key and reenter the number.

If you do not want to continue entering numbers, press the STOP key to return to the Standby Mode.



Using the Function Key

The following table is a summary of the functions available to program your unit. See the referred pages for each procedure for more information.

TIMES	LABEL DESCRIPTION	SEE PAGE
1 	LISTS ?	83,85,86,87
2 	TEL NUMBER ENTRY ?	20
3 	INSTALLATION ?	15,16,17,33,42, 44,45,46,47,61, 63,64,65,67,68, 69,70,71,70,81, 82
4 	OPTIONS ?	74,77,78
5 	POLLING ?	72,73
6 	LANGUAGE ?	13,14
7 	ERASE ALL MESSAGES ?	55

TEL = 1-234

JUN 15 TEL/FAX 00

ABBREVIATED OR ONE-TOUCH DIALING NUMBERS

Storing Numbers for Abbreviated Dialing

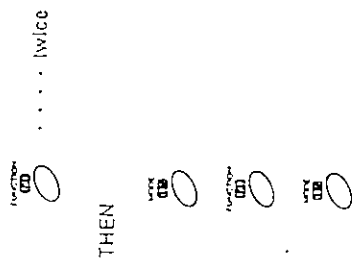
The abbreviated dialing feature allows you to send documents or make a telephone call to frequently-called numbers by entering only a few keystrokes.

You can store a total of 50 abbreviated dialing numbers.

For each abbreviated number, you can store the telephone number or a remote party (up to 30 digits) and corresponding destination name (up to 20 characters). Storing the name is optional. When you call the number, the name (if stored) appears on the LCD display. If the destination name is not stored, the number is displayed on the LCD display for 2 seconds.

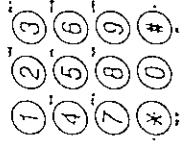
1 Display ABB NUMBER screen

Display the abbreviated numbers (ABB NUMBER) control screen by pressing these keys:



2 Enter 2-digit number

Enter an abbreviated number of 2 digits (from 01 to 50) using the dial keypad.

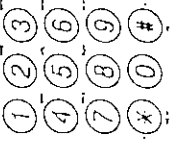


To correct an entry, press the NO key and reenter the number.
Press the YES key to confirm the abbreviated number you entered.



3 Enter telephone number

Enter the telephone number using the dial keypad (up to 30 digits).



NOTE:
Each PAUSE key entry counts as 1 digit.
To correct an entry, press the NO key and reenter the number.

NOTE:

If your unit is connected to a PBX system, you may need to enter a pause so the system will connect you to an outside line.

For example:

TDL=12345_

Press the YES key to confirm that the telephone number is correct.



ID=

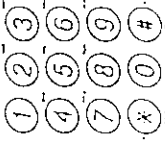
4 Enter receiving ID name (Optional)

If you do not want to store the ID name, just press the YES key and skip to step 5.



Select and enter the characters for the ID name.

For information on storing characters, see page 18.



For example:
To select "LA"

ID = _

Press the 5 ... 3 times

ID = L

Press the 2 ... 1 time

ID = LA

Storing Numbers for Abbreviated Dialing - cont.

4 Enter receiving ID name (Optional) - cont.

Press the YES key to confirm the ID name you entered.

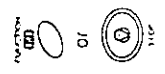


If you wish, you can store additional abbreviated numbers. Press the YES key.

The abbreviated dialing number screen reappears on the LCD display. You can continue storing numbers for abbreviated dialing.

5 Return to the Standby Mode

Press the NO key to return to the Standby Mode.



BASIC FUNCTIONS

ABB. NUMBER ENTRY 7

JUN 15 TEL/FAX 00

Storing Numbers for One-touch Dialing

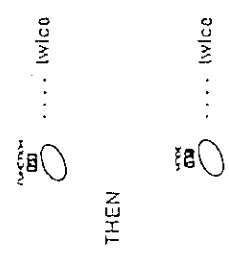
The one-touch dialing feature allows you to send documents or make a telephone call to frequently-called numbers by entering only one keystroke.

For each one-touch number, you can store the telephone number of a remote party (up to 38 digits) and corresponding destination name (up to 20 characters). Storing the name is optional. When you call the number, the name (if stored) appears on the LCD display. If the destination name is not stored, the number is displayed on the LCD display for 2 seconds.

You can store a total of 11 one-touch dialing numbers.

1 Display ONE TOUCH KEY screen

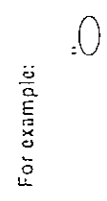
Display the one-touch numbers control screen by pressing these keys:



ENTER ONE TOUCH KEY

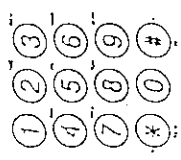
2 Press one-touch dialing key

Select and press the one-touch dialing key on the operator control panel (0-1-1) in which you want to store the telephone number.



3 Enter telephone number

Enter the telephone number you desire, using the dial keypad. Up to 38 digits can be used to store each telephone number.



NOTE:
Each PAUSE key entry counts as 1 digit.

To correct an entry, press the NO key and reenter the number.

NOTE:
If your unit is connected to a PBX system, you may need to enter a pause so the system will connect you to an outside line.

For example:

TEL=12345_

Press the YES key to confirm that the telephone number is correct.



ID=

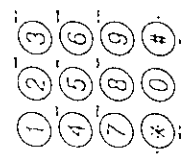
4 Enter receiving ID name (Optional)

If you do not want to store the ID name, just press the YES key and skip to step 5.



Select and enter the characters for the ID name.

For information on storing characters, see page 18.



For example:
To select "LA"

ID=

Press the 5 key 3 times

ID=L

Press the 2 key 1 time

ID=LA

Storing Numbers for One-touch Dialing - cont.

4 Enter receiving ID name. (Optional) - cont.

Press the YES key to confirm the ID name you entered.



If you wish, you can store additional one-touch dialing numbers. Press the YES key. Then the one-touch dialing number screen reappears on the LCD display. You can continue storing numbers for one-touch dialing.

5 Return to the Standby Mode

Press the NO key several times to return to the Standby Mode.



or



ONE TOUCH NBR ENTRY ?

JUN 15 TEL/TAX 00

BASIC FUNCTIONS

Modifying Numbers for Abbreviated or One-touch Dialing

Follow the steps on the right to modify or correct an abbreviated or one-touch number.

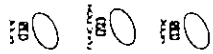
1 Display ABB. NUMBER or ONE TOUCH KEY screen

Modifying Numbers for abbreviated dialing:

Display the abbreviated numbers (ABB. NUMBER) control screen by pressing those keys:

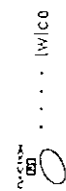


THEN



Modifying Numbers for one-touch dialing:

Display the one-touch numbers control screen by pressing those keys:



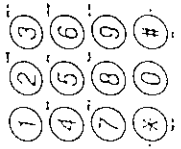
THEN



2 Enter 2-digit number or press one-touch key

When ABB. NUMBER is selected:

Enter the 2-digit number you want to modify, using the dial keypad on the operator control panel, see page 18.



To correct an entry, press the NO key and reenter the number.



For example:

ABB. NUMBER = 12

Press the YES key to confirm the abbreviated number you entered.



When One-touch key is selected:

Select and press the one-touch dialing key you want to modify.

For example:

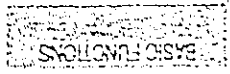


ABB. NUMBER = (01-50)

ENTER ONE TOUCH KEY

TEL=12345

TEL=



Modifying Numbers for Abbreviated or One-touch Dialing - cont.

3 Enter number to be changed

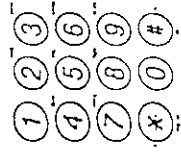
Press the NO key once to clear all the digits of the telephone number you want to correct.



For example:

TEL= _

Enter the telephone number you desire, using the dial keypad up to 30 digits.



For example:

TEL=12300_

Confirm the telephone number you entered is correct, then press the YES key.



ID=TOSHIBA CHICAGO

4 Correct ID name

Move the cursor under a character to be modified and press the NO key. The character disappears. (Different with all clear.)



NOTE:
To clear all the characters, repeat this operation.

If you do not want to modify the ID name, press the YES key then skip to step 5.



ID=_OSHIBA CHICAGO

5 Return to the Standby Mode

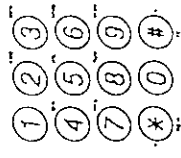
Press the NO key twice to return to the Standby Mode.



or



Enter the ID name you want to input.



For information on storing characters, see page 18.

For example:
To select "LA"

ID=_

Press the 5 ... 3 times

ID=L

Press the 2 ... 1 time

ID=LA

Confirm the ID name is correct, then press the YES key.

























ADD. NUMBER ENTRY?

or

ONE TOUCH NBR ENTRY?

JUN 15 TEL/FAX 00

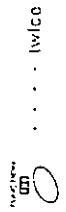
Canceling Numbers for Abbreviated Dialing

<p>1 Display ABB. NUMBER screen</p> <p>Display the abbreviated numbers (ABB. NUMBER) control screen by pressing those keys:</p> <p>  INVIC0</p> <p>THEN</p> <p>   </p>	<p>2 Enter 2-digit number.</p> <p>Enter the 2-digit number you want to cancel, see page 20.</p> <p>           </p>	<p>3 Select CANCEL.</p> <p>Press the NO key, then press the YES key.</p> <p> </p>	<p>4 Return to the Standby Mode.</p> <p>Press the NO key, then press the Standby Mode.</p> <p> </p>
<p>ABB. NUMBER= (01-50)</p>	<p>TEL=12345</p>	<p>CANCELLED</p> <p>After 2 seconds:</p>	<p>JUN 15 TEL/FAX 00</p>

Canceling Numbers for One-Touch Dialing

1. Display ONE-TOUCH KEY screen

Display the one-touch numbers control screen by pressing these keys:



... .. twice

THEN



... .. twice

2. Press one-touch dialing key

Select and press the one-touch dialing key on the operator control panel (01-11) that you want to cancel.

For example:



3. Select CANCEL

Press the NO key, then press the YES key.



4. Return to the Standby Mode

Press the NO key twice to return to the Standby Mode.



or



CANCELED

After 2 seconds:

ONE TOUCH HDR ENTRY?

TEL=12345

ENTER ONE TOUCH KEY

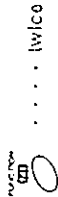
JUN 15 TEL/FAX 00

Storing Numbers for Rejecting Incoming calls

This feature allows you to reject telephone calls that are stored in the unit. You can store 3 telephone numbers. You need to set Caller ID "ON". (See page 47.)

1 Display REJECT NBR ENTRY screen

Display the reject number entry by pressing the following keys:



...twice

THEN

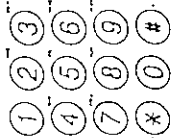


2 Enter reject number to 3

press the YES key to confirm the reject number you entered.



Enter reject number of 1 digit (from 1 to 3 using the dial key pad).



To correct an entry, press the NO key and reenter the number.

Press the YES key



3 Enter telephone number

Enter telephone number using the dial keypad (Up to 38 digits).



Note:
Each PAUSE key entry counts as 1 digit.

To correct an entry, press the NO key and reenter the number.

Note:
If your unit is connected to a PBX system, you may need to enter a pause so the system will connect you to an outside line.

4 Enter receiving ID name (Optional)

If you do not want to store the ID name, just press the YES key and skip to step 5.



...

Select and enter the characters for the ID name.

For information on storing characters, see page 16.

Note:

If your unit is connected to a PBX system, you may need to enter a pause so the system will connect you to an outside line.

To correct an entry, press the NO key and reenter the number.

Press the YES key

For example:
To select "LA"

ID = _

Press the 5 . . . 3 times

ID = L

Press the 2 . . . 1 time

ID = LA

Storing Numbers for Rejecting Incoming calls - cont.

5 Enter receiving ID name (Optional)

Press the YES key to confirm the ID name you entered.



6 Return to the Standby Mode

Press the NO key to return to the Standby Mode.



or



BASIC FUNCTIONS

JUN 15 TEL/FAX 00

ONE TOUCH HBR ENTRY ?

DOCUMENTS

Acceptable Documents

		Single sheet	2 or more sheets
Document size	Max	8.5 in. (W) x 39.37 in. (L) [216 mm (W) x 1000 mm (L)]	8.5 in. (W) x 11 in. (L) [216 mm (W) x 279 mm (L)]
	Min	5.83 in. (W) x 3.94 in. (L) [148 mm (W) x 100 mm (L)]	
Effective scanning width		8.46 in. [215 mm]	
Number of sheets which can be set at one time		up to 20 (Letter size)	
Thickness of document		0.002 to 0.059 in. [0.05 to 0.15 mm] 20 Pound copy paper is acceptable.	0.0024 to 0.0047 in. [0.06 to 0.12 mm] 20 Pound copy paper is acceptable.
Quality of document paper		Uncoated on both sides	

In addition, the documents should meet the following requirements:

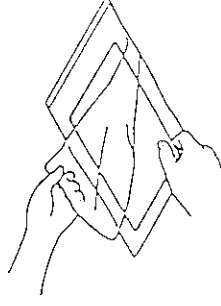
- No torn, wrinkled, or damp pages
- No folded pages or pages with holes
- No transparent pages or pages with a smooth, shiny finish
- No cloth or metal sheets

To send small, torn, wrinkled, damp documents, or documents with holes, use a carrier sheet, as explained at the right.

Another way to send problem documents is by first photocopying them and sending the photocopies instead.

To use a carrier sheet, lift the clear cover, place a single document sheet face-up on the paper sheet, and replace the cover. Carrier sheets are available at your TOSHIBA retailer.

NOTE:
Only one carrier sheet can be sent at time.



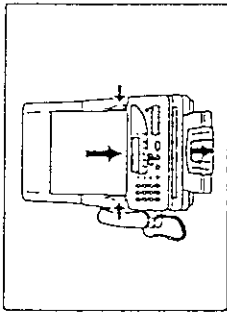
NOTES:

1. Manual assistance is needed for pages longer than 11 in. (279mm).
2. In case of multiple sheets, the documents must be of the same size and paper type.

Loading Documents

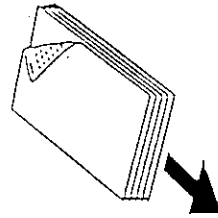
1 Remove attached items

Remove all staples and paper clips from the document.



Place the document face down on the document support. Gently insert the leading edge of the paper into the unit. The machine waits 2 seconds for you to adjust the document guides to fit the paper.

You can load and send up to 20 letter size sheets at one time. Fan the stack of pages to feather the leading edge as shown. Stagger the leading edges of the sheets slightly, and insert the sheets with a slight push to assure smooth feeding.



2 Load the document into the feeder

When sending long documents, or carrier sheets, you cannot stack them on the document support. Send those documents one page at a time.

If you need carrier sheets, contact your TOSHIBA retailer.

3 Adjust setting and send the document

The unit pulls in the document slightly and stops, and the resolution and contrast settings appear on the LCD display. You can adjust the resolution and contrast if necessary. (See following page.) Then send the document or make a copy.

JUN 15 TEL/FAX 00

After 2 seconds:

STD NORMAL

Setting Resolution of Documents

The resolution on your unit are default set to STD as these are the most common settings.

You can adjust the resolution for high quality transmission of documents.

If you wish to adjust the resolution setting, follow the procedure below.

- STD:** Normal handwritten documents
- FINE:** Documents containing small print (newspaper, diagrams)
- SF:** Documents containing very detailed print.
- GRAY:** Sending photographs or documents printed in color.

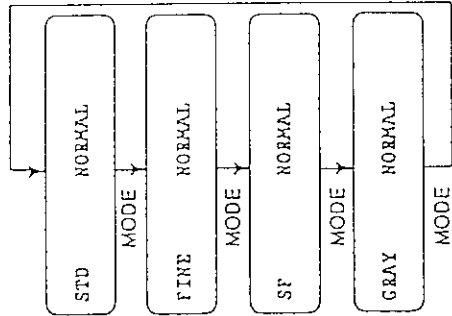
1 Load the document into the feeder.

When you load the document facedown into the feeder, the LCD display changes as shown below.

STD NORMAL

2 Select resolution.

Press the MODE key.



Setting Contrast of Documents

The contrast your unit are default set to Normal as these are the most common settings.

You can adjust the contrast for high quality transmission of documents with unusual contrast characteristics.

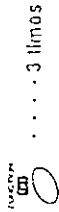
If you wish to adjust the contrast setting, follow the procedure below.

- NORMAL: Ordinary documents
- LIGHTER: Documents with very dark print
- DARKER: Document with light or faint print, pencil

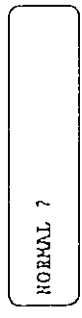
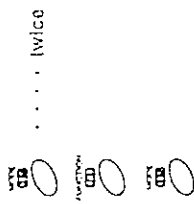
NOTE:
You can not set STD mode for copying.

1. Display SET CONTRAST screen

Display the set contrast screen by pressing the following keys:



THEN



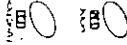
2. Select contrast

Select and enter NORMAL or DARKER, LIGHTER.

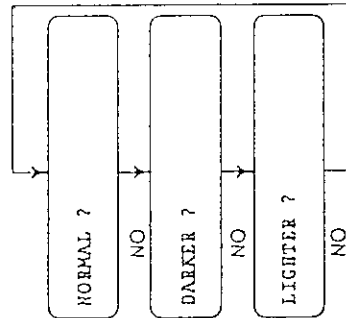
To select NORMAL, press the YES key.



To select DARKER, press the NO and YES keys in sequence.



Press the YES key to return to the Standby Mode.



BASIC FACTORY

Copying Documents

1. Load the document into the feeder.


Load the document face-down into the feeder.

NOTE:
You can load up to 20 letter size sheets at one time. For information on loading documents, see page 31.

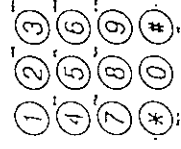
If you want to make a copy of documents of 21 or more pages, place the document on the document support one page at a time during copying.

2. Press the COPY key.

Press the COPY key.





Enter the desired number of copies using the dial keypad on the operator control panel from 1 to 10. If you want only one copy of the document, you need not enter the number of copies.



For example:
Enter 5 using the dial keypad on the operator control panel.

3. Press the YES key or START key.

Press the YES key or START key.

Data from the first page is read into the memory.
After the first page is read into the memory, copying automatically starts.
After copies of the first page are completed, the next page is fed into the memory, and printed.

The LCD display shows number of copies.

4. Return to the Standby Mode.

After copying, the data will reappear on the LCD display.

NOTE:

1. If the memory is in use for another operation such as a multi-address transmission, COPY NBR (1-10) will not appear, and only one copy can be obtained from an original page.
2. The unit will not copy while the handset is lifted.
3. When copying, "STD" is not available.
4. If you select this mode, copying will be carried out in "FINE" mode.
5. When multi-copying, "GRAY" is not available.

If a document containing very small print is multi-copied, the memory may become full of data before all of data is read and MEMORY OVERFLOW will appear on the LCD display. Press the RESET key and copy the document one page at a time.

FINE NORMAL

COPY NBR(1-10) = 5

COPY 03/05

JUN 15 TEL/FAX 00

SENDING DOCUMENTS

Dialing with the Dial Keypad (Direct Dialing)

If you know that the remote party you want to call has a fax unit which will receive documents automatically, you can send your document without picking up the handset and confirming the answering tone from the remote unit.

Dial from the dial keypad when sending to locations whose telephone number is not stored in abbreviated or one touch dial memory.

1. Load the document into the feeder.

Load the document facedown into the feeder.

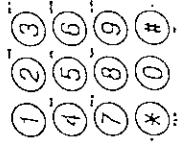
For information on loading documents, see page 31.

For information on setting Resolution and Contrast of documents, see page 32, 33.

STD NORMAL

2. Dial the remote number.

Dial the remote party's facsimile number, using the dial keypad.



To correct an entry, press the NO key and reenter the number.

For example:
0123456789_

3. Press the START key.

Press the START key to begin the transmission.



The LCD display indicates when the connection is made and the "ON LINE" message appears.

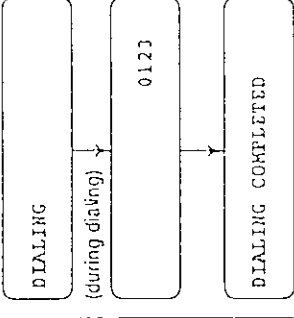
NOTES:

- If the number you have dialed is busy, this unit will automatically redial the dialed number 5 times (excluding the first try) at 3 minute intervals.
 - To redial without waiting, press the REDIAL key. (See page 41.)
- The number of times and the interval of the automatic redial can be set by the user. (See page 60.)

An ending tone sounds when the transmission is completed and the data reappears.

NOTE:

If your document is not sent successfully, "COMMUNICATION ERROR" appears on the LCD display. Press the STOP key to return to the Standby Mode.



JUN 15 TEL/FAX 00

Off-hook Dialing

1 Load the document into the feeder.

Load the document facodown into the feeder.
 For information on loading documents, see page 31.
 For information on setting Resolution and Contrast of documents, see page 32,33.

STD NORMAL

2 Pick up the handset.

Pick up the handset and wait until you hear the dial tone.

OFF HOOK

3 Dial the remote number.

Dial the remote party's fax unit number using the dial keypad. If a wrong number is entered in the process, hang up and retry the procedure from the beginning.

NOTE:
 One-touch dialing or abbreviated dialing is also available using the one-touch key or the ABB, DIAL key. Listen for the remote facsimile's answering tone. If the remote party answers the telephone, ask that person to press the START key on remote until so you can send a document. Listen for the high-pitched answering tone from the remote unit.

For example:

TEL= 12345

4 Press the START key.

When you hear the answering tone, press the START key.



ON LINE

5 Replace the handset.

Replace the handset.
 When the transmission is completed, your unit sounds an ending tone, and the date reappears on the LCD display.

NOTE:
 If your document is not sent successfully, "COMMUNICATION ERROR" appears on the display. Press the STOP key to return to the Standby Mode.

JUN 15 TEL/FAX 00

On-hook Dialing

You can send your documents with ON-HOOK dialing, using the monitor speaker to confirm the answering tone of the remote unit.

NOTE:

You can change the speaker volume. (7 levels) Press large circle to make it louder and small circle to make it lower.



1 Load the document into the feeder.

Load the document facedown into the feeder.

For information on loading the documents, see page 31.

For information on setting Resolution and Contrast of documents, see page 32,33.

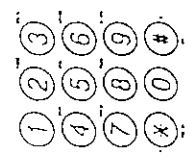
2 Press the SP-PHONE key.

Press the SP-PHONE key. Dial tone will be heard.



3 Dial the remote number.

Dial the remote party's number.



NOTES:

1. If a wrong number is entered in the process, press the MONITOR key and retry the procedure.
2. One-touch dialing or abbreviated dialing is also available using the one-touch key or the ABB, DIAL key.

4 Press the START key.

When the answering tone is heard, press the START key. If the remote party answers the phone, begin speaking to the microphone.

NOTE:

If you want to talk with the handset, pick up the handset and continue talking.

Inform the remote party that you are going to send a document and ask him or her to get ready to receive. Then press the START key.



OK LINE

When the transmission is completed, your unit sounds an ending tone, and the date reappears.

NOTE:

If your document is not sent successfully, "COMMUNICATION ERROR" appears on the LCD display. Press the STOP key to return to the Standby Mode.

STD NORMAL

OK HOOK

For example:

12345

JUN 15 TEL/TAX 00

Abbreviated Dialing

If you have stored telephone numbers for abbreviated dialing, and if the party you are calling is set to receive documents automatically, you can send a document using the ABB, DIAL key, 2-digit number, and the START key.

A maximum of 50 abbreviated dial stations are available.

For information on storing numbers for abbreviated dialing, see page 20.

NOTES:

1. If the abbreviated dialing number and party name were previously entered, they appear on the LCD display.
2. If you enter an abbreviated dialing number not stored in the unit, "NUMBER NOT LISTED" will appear on the LCD display. Enter the telephone number or the correct abbreviated dialing number.
3. If the number you have dialed is busy, this unit will automatically redial the number 5 times (excluding the first try) at 3 minutes intervals. The number of times and interval of the automatic redial can be set by the user operation. (See page 60.)
4. To redial without waiting, press the REDIAL key. (See page 41.)

1 Load the document into the feeder

Load the document face-down into the feeder.

For information on loading the documents, see page 31.

For information on setting Resolution and Contrast of documents, see page 32,33.

2 Press the ABB, DIAL key and enter a 2 digit number

The name of the remote party is displayed on the LCD display. If the name of the remote party is not stored, the phone number will be displayed instead.

The unit automatically dials the number, confirms the connection, and sends the document.

Press the ABB, DIAL key twice.



ABB NUMBER = (01-50)

Select and enter the 2-digit number you want to call.



To correct an entry, press the NO key and reenter the abbreviated number.

For example:

ABB NUMBER = 12

Press the START key.



STD

NORMAL

TOSHIBA AUSTRALIA

An ending tone sounds when the transmission is completed, and the date reappears.

NOTE:

If your document is not sent successfully, "COMMUNICATION ERROR" appears on the LCD display. Press the STOP key to return to the Standby Mode.

JUN 15 TEL/TAX 00

One-touch Dialing

If you have stored frequently used numbers for the one-touch dialing, and if the party you are calling is set to receive documents automatically, you can send a document with a single keystroke.

For information on storing numbers for the abbreviated or the one-touch dialing, see pages 20 - 23.

NOTES:

1. If you press an unprogrammed one-touch dialing key, "NUMBER NOT LISTED" will appear on the LCD display. Enter the telephone number or the correct one-touch dialing key.
2. If the number you have dialed is busy, this unit will automatically redial the dialed number 5 times (excluding the first try) at 3 minute intervals. The number of times and interval of the automatic redial can be set by the user operation. (See page 58.)
3. To redial without waiting, press the REDIAL key. (See page 41.)

1 Load the document into the feeder

Load the document face down into the feeder.

For information on loading documents, see page 31.

For information on setting Resolution and Contrast of documents, see page 32,33.

2 Press the one-touch key

Press the one-touch key for the number you want to call.

For example:



The name of the remote party appears on the display for 2 seconds. The unit automatically dials the number, confirms the connection and sends the document. The messages on the display tell you what step is being performed.

TOSHIBA AUSTRALIA

After 2 seconds:

DIALING

DIALING COMPLETED

ON LINE

STD NORMAL

JUN 15 TEL/FAX 00

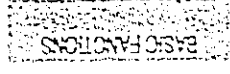
Confirming the Transmission

Check the LCD display

After sending a document, check the control panel LCD display to confirm that the transmission was successful.

If the transmission was not successful, a tone sounds for 4 seconds, and the LCD displays an error message, "COMMUNICATION ERROR".

Clear the message by pressing the STOP key.



JUN 15 TEL/FAX 00

Index (Alphabetical) Dialing

Prior to using alphabet dialing the abbreviated locations ID must be programmed.

Alphabet dialing is performed by selecting a remote location using the first character of the locations ID.

Once the character is entered the unit will search the directory and display the first matching location.

Searching operation by alphabet selects a calling party and dials.

Keypad Conversion Table

Keys	Displayed Character
1	-
2	ABC
3	DEF
4	GHI
5	JKL
6	MNO
7	PQRS
8	TUV
9	WXYZ
0	mark

1 Load the document

Load the document face down in the document tray. Wait for the LCD to display the document mode below.

For information on loading documents, see page 31.

For information on setting Resolution and Contrast of documents, see page 32,33.

STD NORMAL

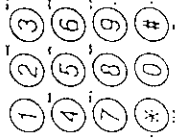
2 Press the ALPHABET key

Press the ALPHABET key on the operator control panel.



3 Search the character

Enter the first initial of the name using the telephone keypad on the operator control panel. Press the key which corresponds to the desired letter.



For example:
Press the "8" key for letters T, U, V.



TOSHIBA CHICAGO :01

The first matching location will be displayed. Use the "H" key to advance through the directory. Use the "*" key to scroll backwards through the directory. The number displayed to the right of the name indicates the abbreviated number associated with the name.

SEARCH CHARACTER# -

4 Press the START key

Press the START key to send the document.



DIALING

Transmission Features

Manual Redialing

If a number you have dialed is busy, you can manually redial it. While the message "WAITING TO REDIAL" appears on the LCD display, press the REDIAL key. Redialing begins immediately.



NOTES:

1. Automatic redialing will be carried out up to 5 times at 3 minute intervals.
2. In manual redialings, the number of retries is not limited.

Cancelling Transmission

If you want to cancel a transmission in progress, press the STOP key.



Your unit disconnects the line, and feeds out all documents.

Call Request

If you are sending a document and want to speak to the remote party, press the CALL key while the following message appears on the LCD display.

For example:

GJ STD



After the last page is sent, the call signal is sent to the remote party's unit. The remote party may pick up the handset within 15 seconds. If no one answers the call request after 15 seconds, the signal ends. The unit returns to the Standby Mode.

NOTES:

1. You can cancel the call request by pressing the CALL key again while you are sending a document.
2. If your unit sends a call signal, "31" is printed in the status column of the Journal even though the transaction result is OK.

CALL REQUEST

CALL

Memory Transmission (Substitute Transmission)

To perform a memory transmission, load a document and press the MEMORY key to store it in memory for transmission.



ENTER TEL NUMBER

Enter the remote party's facsimile number using the dial keypad on the operator control panel.

NOTE:

One-touch dialing or abbreviated dialing may also be used.

Press the START key. The document will be read, stored in memory, and dialing will begin.

NOTE:

Only one document (up to 30 pages*) can be stored in memory for transmit purposes at one time.

* Based on 4% ITU #1 Chart.

For example:

10% USED

RECEIVING DOCUMENTS

Receiving Modes

There are four reception modes in AF7 and the receiving movements differ according to the selected mode.

In Home Mode: TEL/FAX, TEL, FAX

In Absence Mode: FAX/TAD

TEL/FAX:

If you use the unit as a facsimile rather than a telephone, you should set the unit to this mode. The unit receives a call after the pre-ringing delay. While the unit sends the signal OGM, it distinguishes the signal between telephone and fax and if it is a fax signal, the unit automatically enters the fax reception mode.

TEL:

If you use the unit as a telephone most of the time, you should set the unit to this mode. When a call comes in, the unit keeps ringing until you answer the phone. When you pick up the handset and if you hear a facsimile signal, press START key to receive documents.

FAX:

If you use the unit as a facsimile most of the time, you should set the unit to this mode. When the unit receives a call, the unit enters the automatic fax reception mode after the ring delay.

FAX/TAD

If you set the unit to Absence Mode, the reception mode is set to FAX/TAD automatically.

Select the receiving mode

You can select the receiving mode in Home Mode according to how often you use each faculty. The initial setting is: TEL/FAX

1 Display receive mode

Display the dial type control screen by pressing those keys:



... 3 times

THEN



... twice

2 Select receive mode

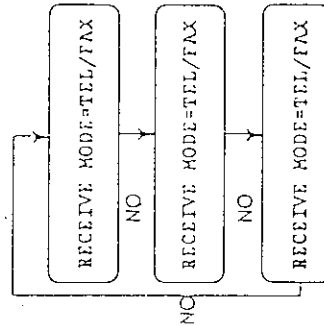
select and enter the receive mode to match your line. To select TEL/FAX, press the YES key.

To select FAX, press the NO key and the YES key in sequence.

To select TEL, press the NO, NO key and the YES key in sequence.



Press the YES key to return to the Standby Mode.



RECEIVE MODE=TEL/FAX

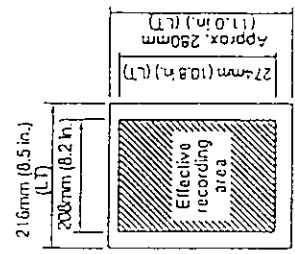
JUN 15 TEL/FAX 00

Recording Paper Size

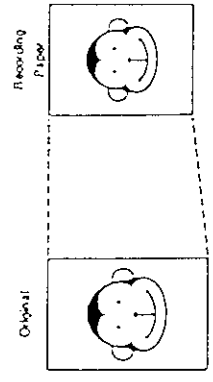
Relationship between Original and Recording Paper

- Recording paper size

This facsimile uses letter size paper. The received original is recorded within the effective recording area as shown below.



- When the original to be received or to be copied is shorter than or the same length as the effective recording area, it will be recorded in its actual size.
- When the original to be received is longer than the effective area:
 - It will be vertically reduced to fit on the installed recording paper. The reception will be divided onto two sheets if more than 75% of the original is to be reduced.



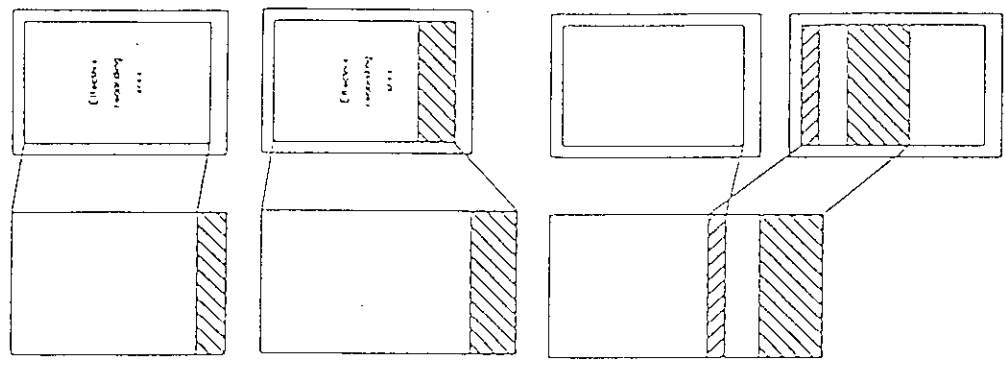
- If you desire reception without reduction or excessive paper usage, set the "DISCARD" function to "ON". The lower part of the original may be lost in some cases. However, when the original size is longer than a predetermined dimension relative to the effective recording area, the image will be automatically reduced.
- If the "RX REDUCTION" function is "OFF", the original will be recorded on two or more sheets. The top of the second page will repeat the lower part of the first page (about 5mm).

Printer Settings

Setting Various Reception Functions

Relationship between Rx reduction, Discard and Divide Functions when "Rx reduction" and "Discard" are ON. These settings are valid for receptions only. (Invalid in copy mode.)

- When the received original is the same size as the set paper: It will be recorded at its actual size and the part shown shaded will be cut off.
- When the received original is the longer than the recording paper: It will be automatically reduced to fit and no data will be cut off.
- When the original can not be recorded within the effective recording area even if reduced: It will be recorded at its actual size and the overflowing part will be recorded on the next page. The lower part of the first page and the upper part of the next page will be overlapped.



Discard Setting

3 Return to the Standby Mode.

The unit returns to the Standby Mode.

2 Select to DISCARD

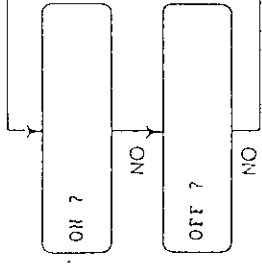
Press the YES key.

OK ?

To select "ON", press the YES key.

Select "OFF", press the NO key.

Then press the YES key.



JUN 15 TEL/FAX 00

Recording Area

3 Return to the Standby Mode.

The unit returns to the Standby Mode.

2 Select the RX reduction menu

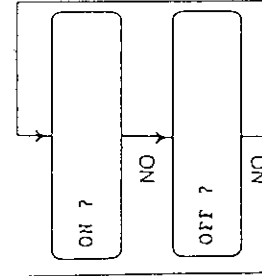
Press the YES key.

OK ?

To select "ON", press the YES key.

Select "OFF", press the NO key.

Then press the YES key.



JUN 15 TEL/FAX 00

1 Display the DISCARD screen

Display the RX reduction (reception reduction) position screen by pressing the following keys.

..... 3 times

..... 3 times

SET DISCARD ?

1 Display the RX reduction screen

Display the RX reduction (reception reduction) position screen by pressing the following keys.

..... 3 times

..... 3 times

SET RX REDUCTION ?

Reception Features

Ring Delay setting in "FAX" and "TELFAX" mode

When the telephone rings, you can talk to the remote party by picking up the handset within a pre-set number of rings. If you don't pick up the handset within the period allotted, the unit enters the automatic fax reception mode.

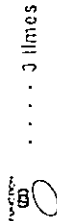
You can select a ring delay from 0 to 9 rings. The initial value is set to "0".

If you do not want to use this function, set "0". When "0" is set, your unit will enter the automatic receiving mode immediately if a call comes in.

In order to use this function, you need set the "FAX" or "TELFAX" mode and set the delay period using the following procedure. (see page 42.)

1. Set the ring delay for reception

To set the delay period, press the following keys:



... 3 times

THEN



... 4 times



THEN



SET RING DELAY ?

Press the YES key.



Canceling Reception

You can cancel a reception by pressing the STOP key.



Call Request

If you want to speak to the other remote party who is sending a document to you, press the CALL key while the bottom message appears on the LCD display.



When the last page is received, the call signal is sent to the remote party's unit, and the calling signal sounds for 15 seconds. If the remote party answers the call, speak to the remote party immediately by picking up the handset. If no one answers the call request after 15 seconds, the sound will stop, and the unit will return to the Standby Mode.

NOTES:

1. You can cancel the call request by pressing the CALL key again while you are receiving a document.
2. If your unit sends a call signal, "31" is printed in the status column of the Journal, even though the transaction result is OK.

JUN 15 FAX

00

CALL REQUEST

RING DELAY (0-9) = 0

For example:

RING DELAY (0-9) = 7

Distinctive Ring

Distinctive Ring is a Telco feature which provides one ring signal for a telephone call and a different ring signal for a facsimile communication. This allows 2 types of communication with only one phone line. This unit's initial setting is "off". With this service set to ON, your unit monitors the ring signal, and if the ring signal is for the telephone, your telephone will ring; if the signal is for the facsimile, the facsimile will receive automatically.

IMPORTANT:

You must contract with your Telephone Company (Telco) to obtain this service. The Telco will assign one phone number for telephone service and one phone number for facsimile service. Both numbers will use the same physical phone line. Switching occurs at the Telco.

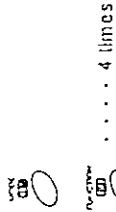
This unit merely responds to the special ringing signals provided by the Telco. If you do not have Distinctive Ring from your Telco, do NOT select this feature. Use TEL/FAX instead. (see page 42.)

1 Display Distinctive ring screen

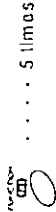
Press the FUNCTION key 3 times, then press the YES, NO, NO, YES and NO key 6 times to select "SET DISTINCTIVE RING".



THEN

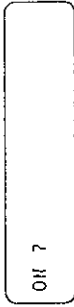


THEN



2 Select Distinctive ring screen

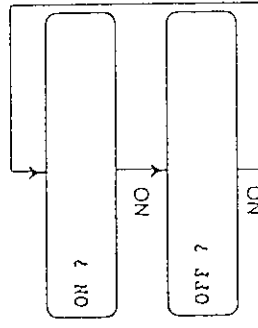
Press the YES key.



To select "ON", press the YES key.

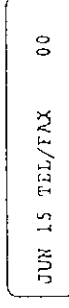


To select "OFF", press the NO key.



3 Return to the Standby Mode

The unit returns to the Standby Mode.



BASIC FUNCTION

Caller ID Indication

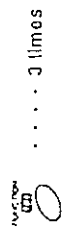
Name or number of the telephone calling you or sending a facsimile can be confirmed on the display prior to your responding to the call.

IMPORTANT:
Caller ID is a service provided by some Telephone companies (Telcos). You must contract with your Telco to obtain this service. This settings merely permits this unit to work with your Telco's Caller ID service.

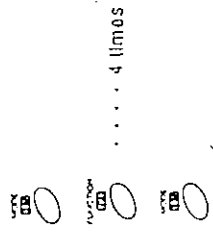
NOTE:
If the ID data sent from the Telco is expressed in small letters, it will be displayed in the upper case letters.
Priority order displayed on the LCD is:
1. Name
2. Telephone No.

1 Display Caller ID Indication screen

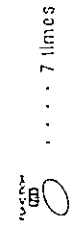
Press the FUNCTION key 3 times, then press the YES, NO, NO, YES and NO key 7 times to select "SET CALL ID?".



THEN



THEN



2 Select Caller ID screen

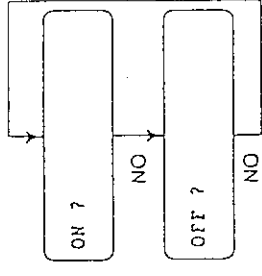
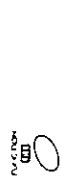
Press the YES key.



To select "ON", press the YES key.



To select "OFF", press the NO key.



3 Return to the Standby Mode

The unit returns to the Standby Mode.

JUN 15 TEL/FAX 00

TELEPHONE OPERATION

Simple Dialing

You can make a telephone call using your unit as an ordinary telephone. One-touch dialing and abbreviated dialing are available also.

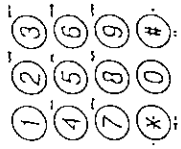
For each abbreviated number or one-touch key, you can store a telephone number (up to 38 digits) and a corresponding destination name (up to 20 characters). Storing the name is optional. When you call a stored telephone number, the number and the destination name (if stored) appear on the LCD display.

Simple Dialing

Pick up the handset. You can hear the dial tone from the handset.

OFF HOOK

Dial the number. When the remote party answers, begin speaking.



For example:

TEL# 12345

One-touch Dialing

Pick up the handset and listen for the dial tone.

OFF HOOK

Press the one-touch dialing key. (01 - 11)

The stored telephone number will be dialed. When the remote party answers, begin speaking.

For example:



Press START to begin transmission.

For example:

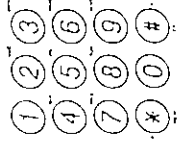
TOSHIBA AUSTRALIA

Abbreviated Dialing

Pick up the handset and listen for the dial tone.

OFF HOOK

Press the ABB. DIAL key twice and press the 2-digit number, using the dial keypad. The stored number is dialed.



When the remote party answers, begin speaking. Press START to begin transmission.

For example:

ABB. NUMBER = 12

12345

Redialing

When the number you dialed is busy, or you want to redial the last number, press the REDIAL key.

If you press the STOP key without replacing the handset after dialing, redialing is not available.

1 Redialing

Pick up the handset (or press the SP-PHONE key).



2 Press the REDIAL key

Press the REDIAL key.



OFF HOOK

or

SPEAKER PHONE

For example:

TEL= 12345

Receiving Incoming Calls

If you hear the ringing tone, pick up the handset (or press the SP-PHONE key) and wait for the remote party to answer, then begin speaking.

Speakerphone (On-hook Dialing)

You can dial the remote party without picking up the handset.

NOTE:
You can change the speaker volume (7 levels). Press large circle to make it louder and small circle to make it lower.



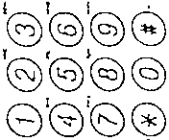
1 Press the SP-PHONE key

Press the SP-PHONE key, and listen for the dial tone from the speaker.



2 Dial the remote party's number.

Dial the remote party's number, using the dial keypad.



One-touch dialing or abbreviated dialing is also available using a one-touch key or the ABB, DIAL key and the appropriate 2-digit code.

When the remote party answers, begin speaking to the microphone. To begin a facsimile transmission, press START.



NOTE:
If you want to talk with the handset, pick up the handset and continue talking.

For example:

SPEAKER PHONE

TEL# 12345

50

Hold

1 Press the HOLD key.

You can place a call on hold by using the HOLD key.

Press the HOLD key, then replace the handset.



NOTE:
The remote party will hear the holding melody from your unit.

The connection will not be cut off even if you replace the handset.

ON HOLD

ON HOLD

2 Pick up the handset.

To resume speaking, pick up the handset or press the HOLD key.



NOTE:
If you keep the remote party on hold for more than 3 minutes, the speaker will emit a warning tone. You must pick up the handset to stop the warning tone.

OFF HOOK

TAD OPERATION

AF7 has a TAD function which can record various messages defined below.

The messages can be recorded for 15 min. all together and each message can be recorded, played back and erased. Also, not only with the unit itself, but TAD operation can be activated by remote operation which means you can operate from public or other telephones outside. (See the list below).

ICM (Incoming Message)
ICM is a message from the calling party recorded during Absence mode.
30 ICMs can be recorded at maximum.

OGM (Outgoing Message)
OGM is an answering message recorded by the user to answer incoming calls during Absence mode. Only one OGM can be recorded.

Memo Message
You can record a message to your family or someone who shares the telephone with you.
Only one Memo Message can be recorded.

Conversation
You can record a conversation with the other party.
Only one conversation can be recorded.

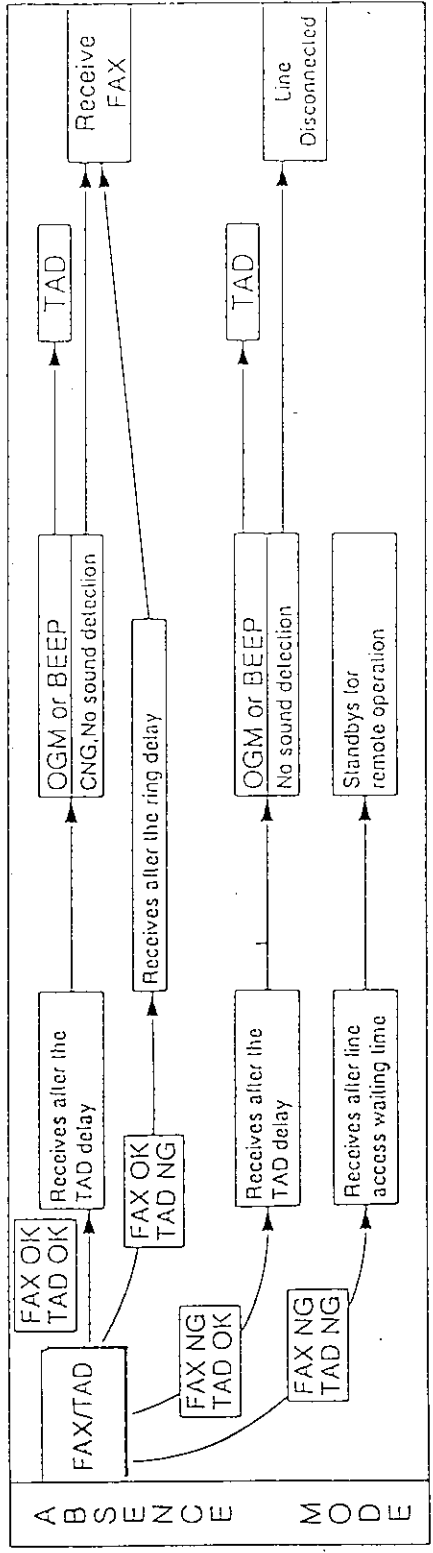
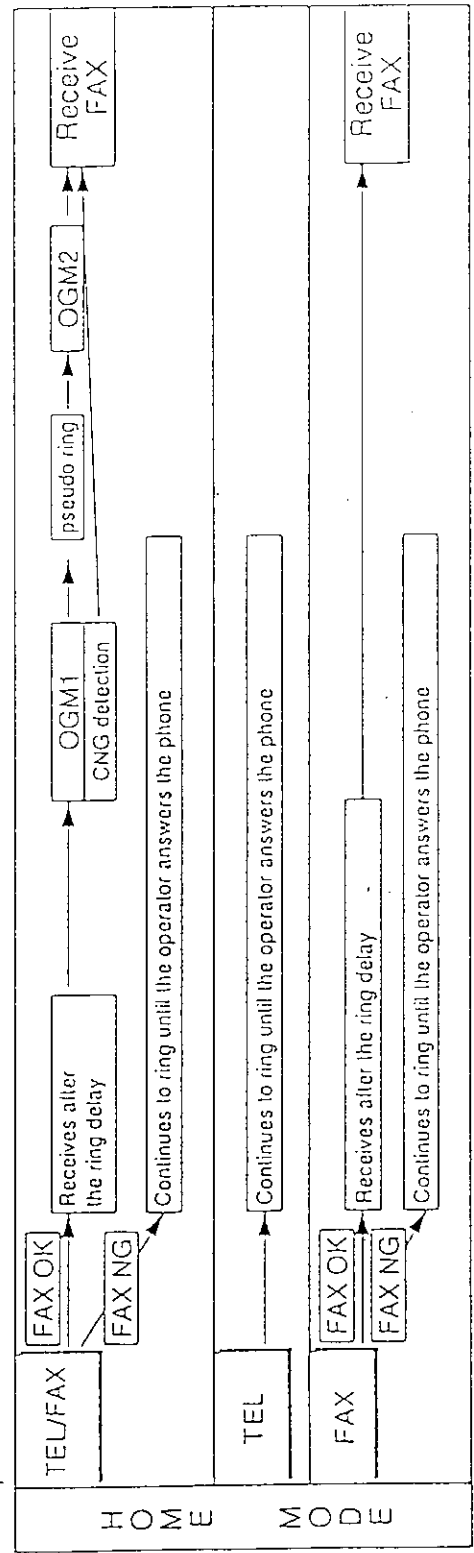
TAD operation table

	UNIT OPERATION	REMOTE OPERATION (See page 61)
PLAY ICM NOTE 2:	PLAY key	#, 1 key and 0 key
PLAY MEMO MESSAGE	MEMO key and YES key	#, 1 key and 1 key
PLAY CONVERSATION	TALK key and YES key	-
PLAY OGM	OGM key and YES key	-
REWIND	REW key while playing	# key and 2 key during remote operation
SKIP	FF key while playing	# key and 3 key during remote operation
STOP PLAYING & RECODING	STOP key	# key and 4 key during remote operation
ERASE ICM INDIVIDUALLY NOTE 3:	ERASE key and YES key while playing	#, 6 key and 0 key during remote operation
ERASE ALL ICM	FUNCTION NO 6	#, 6 key and 0 key
ERASE MEMO MESSAGE	MEMO, NO key and YES key	#, 6 key and 1 key
ERASE CONVERSATION	TALK, NO key and YES key	NOTE 4:
ERASE OGM	OGM, NO key and YES key	NOTE 5:
RECORD MEMO MESSAGE	MEMO key and YES key	-
RECORD CONVERSATION	TALK key and YES key	-
RECORD OGM	OGM key and YES key	-
HOME MODE ABSENCE MODE	TAD key	# key and 9 key
ABSENCE MODE HOME MODE	TAD key	# key and 9 key
END OF REMOTE OPERATION	-	# key and * key

NOTES:

1. You must press the # key and * key while OGM is playing, and enter 4-digit remote code, then enter the remote code.
2. If a new memo message is played back before the ICM.
3. If new memo message is played back before the ICM, you can erase it with the same operation.
4. After you hear the beep tone, press the #, 6 key and 0 key one more time.
5. After you hear the beep tone, press the #, 6 key and 1 key one more time.

Reception features



Absence Mode

You can switch from Home Mode to Absence Mode (or the opposite) by pressing TAD key.
Home Mode has three reception modes: TEL, TEL/FAX, FAX.
Absence Mode has only one reception mode: FAX/TAD.
If you set the unit to Absence Mode, the reception mode is automatically set to FAX/TAD.

NOTES:

- At the right end of the LCD display shows the numbers of the ICMs and memo message recorded.
- The numbers are counted differently according to the unit's mode.
- During Home Mode:
 - number of all ICMs and memo message stored in the unit
- During Absence Mode:
 - number of ICMs and memo messages recorded during the latest Absence Mode (from the time you set the latest Absence mode to the time you return the unit to Home mode).

If the remaining TAD memory is less than 30sec., or if 30 ICMs have already been recorded, the LCD display appears as shown on the right.

MESSAGE FULL

You need to erase unnecessary messages (ICM, OGM, Memo Message, conversation) in order to set the unit to Absence mode.

If the OGM is not recorded, the unit only emits a beep tone.

RECORD OGM

Setting Absence Mode

Press the TAD key.
The TAD key lightens and plays OGM after a beep tone.
The unit switches to Absence Mode.



JUN 15 TEL/FAX 00

TAD key

JUN 15 FAX/TAD 00

Press the TAD key again, then after the beep tone, the unit returns to Home Mode.
(TAD key light goes off)

JUN 15 TEL/FAX 00

ICM (Incoming Message)

Recording ICM

You can select the maximum recording time of an ICM from 30sec., 60sec., or 120sec. (See page 7.1.) Initial setting is 30sec.

TAD key light is on. (Absence Mode)

JUN 15 FAX/TAD 00

When a call comes in, TAD starts activating after a pre-set number of rings and sends OGM.

NOTES:

1. If the remaining memory is less than 30 sec. or if 30 ICMs have already been recorded, the unit emits a beep tone and the caller cannot record any messages.
2. If both TAD operation and facsimile reception are unavailable, the unit receives a call after the line access waiting time (45sec) and standby for remote operation.
3. If the OGM is not recorded, the unit emits a beep tone instead.

OK LINE

JUN 15 FAX/TAD 01

After the beep tone, the unit starts recording a message.

NOTES:

1. If you pick up the handset or press the SP-PHONE key while the calling party is recording, the unit stops recording and you can start talking with the calling party.
2. When the recording time is fully used, the unit emits a one-second beep tone and stops recording.
3. If the recording is valid (The recording is valid), if the caller does not record anything within 9 sec. after the beep tone, or if the unit detects CNG, the unit stops recording and switches to FAX reception mode. (The recording is invalid.)
4. If the caller does not record anything after 9sec., the recording is invalid and the unit returns to standby mode.

RECORDING

When the calling party hangs up after recording a message, the unit stores the message as an ICM. The TAD key starts blinking and counts up the message at the right end of the LCD.

Playing back ICM

You can play back ICM by pressing the PLAY key. At the right end of the LCD shows the number of the ICM and memo message recorded during the latest Absence Mode. (in this case: 2 new messages are recorded)

Press the PLAY key.

The unit plays back the memo message if recorded, then the first ICM and emits a beep tone. The unit continues to play back the second ICM and emits a beep tone.



NOTE:

If you press the STOP key while playing, the unit stops playing and the unit returns to standby mode.

PLAYING MEMO

MSG. 01

MSG. 02

When all the ICMs are played back, the unit returns to the standby mode. (TAD key is still blinking)

NOTE:

If you press the TAD key, the unit switches to Home Mode. (TAD key goes off.) At the right end of the LCD display shows the number of all ICMs and messages stored in the unit. (In this case: 3 old messages had been stored before)

JUN 15 TEL/FAX 05

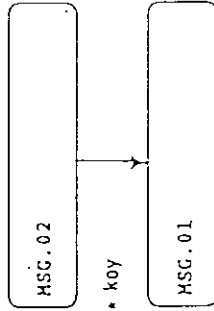
JUN 15 FAX/TAD 02

ICM (Incoming Message) - cont.

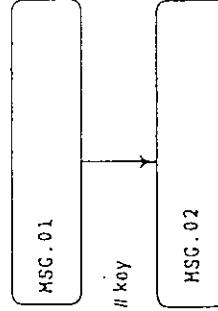
Rewinding & Skipping ICM

If you press the * key (REW) while the unit is playing back an ICM, the unit plays back the previous ICM. If you press the # key (FF) while the unit is playing back an ICM, the unit skips and plays the next ICM.

The unit is playing back an ICM. Press the * key to play back the previous ICM.



Press [#] key to skip to the next ICM.



Erasing ICM Individually

You can erase an ICM individually by pressing the ERASE key while the message is played back.

The unit is playing back an ICM.

NOTE:

1. If you press the NO key, the unit will not erase the ICM and plays back the next ICM.
2. If the next ICM does not exist, the unit returns to standby mode.
3. The erased ICM number will be a missing number until the unit returns to standby mode. (In this case, "MSG.02" becomes a missing number.)

MSG. 02

Erasing All ICM

You can erase all ICM stored in the unit by the FUNCTION key operation.

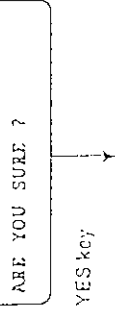
Display the erase all messages control screen by press the NO key 7 times.



Press the YES key once. Press the YES key and the unit starts erasing the messages.



THEN



When all the messages are erased, the unit returns to standby mode. (The numbers of the messages on the display changes to "00".)

JUN 15 FAX/TAX 00

Erasing ICM Individually

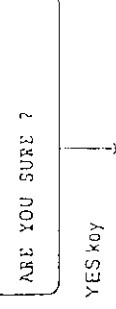
Press the ERASE key, then the unit stops playing the ICM and displays as shown on the right.



Press the YES key and the display appears as shown on the right for 2sec.



After 2sec., the unit plays back the next ICM.



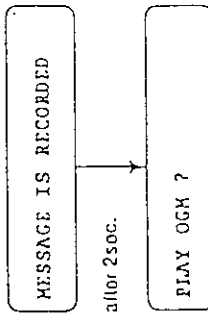
OGM (Outgoing Message)

Recording OGM

The maximum recording time of the OGM is 60sec.

NOTES:

1. If the remaining TAD memory is less than 30sec., the "MESSAGE FULL" will appear on the LCD display. Erase unnecessary messages (ICM, Memo message, or conversallory).
2. If the OGM has already been recorded, the display appears as shown on the right. Press (NO) and erase the old OGM.



3. If you pick up the handset or press the SP-PHONE key while recording, the unit stops recording. (The recording is invalid.)

4. If you press the STOP while recording, the unit stops recording. (The recording is invalid.)

5. When the recording time is fully used, the unit emits a one-second beep tone and stops recording. (The recording is valid.)

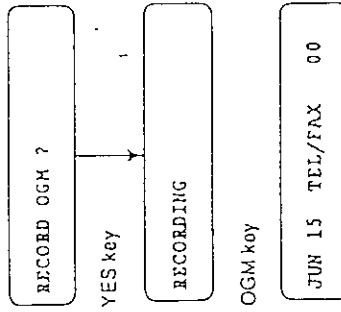
TAD key light is off. (Home Mode)
Press the OGM key.



Press the YES key and you can start recording OGM.
Speak to the speakerphone.



When you finish recording the message, press the OGM key.
The unit returns to standby mode.



Playing back OGM

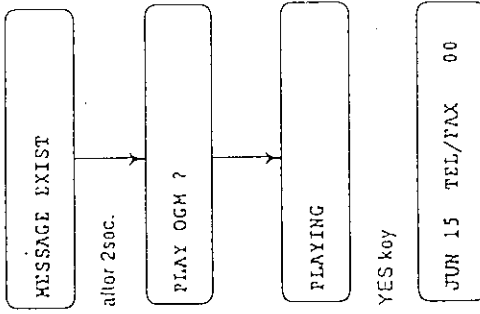
TAD key light is off. (Home Mode)
Press the OGM key.



Press the YES key and the unit starts playing OGM.



After the OGM is played back, the unit emits a one-second beep tone and returns to standby mode.



NOTES:

1. Playing back OGM is available only when the unit is in standby mode (either Home or Absence mode).
2. If the OGM is not recorded, "RECORD OGM ?" will appear on the LCD display.
3. If you press the STOP key while playing, the unit stops playing and returns to standby mode.
4. If you press the * key (REVT) while playing, the unit replays the OGM from the beginning. If you press the # key (FF) while playing, the unit ignores the action and continues playing.
5. If you press the ERASE while playing, "ARE YOU SURE ?" will appear on the LCD display. If you press the YES key, the unit erases the OGM.

OGM (Outgoing Message) - cont.

Erasing OGM

TAD key light is off. (Home Mode)
Press the OGM key.



Press the NO key and the unit starts playing OGM.



NOTES:

- Erasing OGM is available when the unit is in standby mode (either Home or Absence mode) or while the OGM is played back (press the ERASE key while playing).
- If the OGM is not recorded, "RECORD OGM ?" will appear on the LCD display.

MESSAGE EXIST

after 2sec.

PLAY OGM ?

YES key

ERASE OGM ?

Press the YES and the unit erases the OGM.



NOTE:
If you press the NO key, the unit will not erase the OGM and returns to standby mode.

Press the STOP key and the unit returns to standby mode.



ERASED

after 2sec.

RECORD OGM ?

STOP key

JUN 15 TEL/FAX 00

Memo Message

Recording Memo Message

The maximum recording time of the Memo Message is 3min.

NOTES

- If the remaining TAD memory is less than 30sec., "MESSAGE FULL" will appear on the LCD display. Erase unnecessary messages (ICM, OGM, or conversation).
- If Memo Message has already been recorded, the display appears as shown on the right. Press the NO key and erase the old Memo Message.

MESSAGE IS RECORDED

PLAY MEMO ?

- If you pick up the handset or press the SP-PHONE key while recording, the unit stops recording.
(The recording is invalid.)
- If you press the STOP key while recording, the unit stops recording.
(The recording is invalid.)
- When the recording time is fully used, the unit emits a one-second beep tone and stops recording.
(The recording is valid.)

RECORD MEMO ?

YES key

RECORDING

MEMO key

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Memo Message - cont.

Playing back Memo Message

TAD key light is off. (Home Mode)
Press the MEMO key.



NOTES:

1. Playing back Memo Message is available only when the unit is in standby mode (either Home or Absence mode). If a Memo Message is recorded during the latest Absence Mode, the TAD key blinks and you can play it back by pressing the PLAY key.
2. If Memo Message is not recorded, "RECORD MEMO ?" will appear on the LCD display.

MESSAGE EXIST

after 2sec.

PLAY MEMO ?

PLAYING MEMO

after 2sec.

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After the Memo Message is played back, the unit emits a one-second beep tone and returns to standby mode.

NOTES:

1. If you press the STOP key while playing, the unit stops playing and returns to standby mode.
2. If you press the * key (REW) while playing, the unit replays Memo Message from the beginning.
3. If you press the ERASE key while playing, "ARE YOU SURE ?" will appear on the LCD display. If you press the YES key, the unit erases the Memo Message.



Erasing Memo Message

TAD key light is off. (Home Mode)
Press the MEMO key.



NOTES:

1. Erasing Memo Message is available when the unit is in standby mode (either Home or Absence mode) or while Memo Message is played back (press the ERASE key while playing).
2. If Memo Message is not recorded, "RECORD MEMO ?" will appear on the LCD display.

MESSAGE EXIST

after 2sec.

PLAY MEMO ?

Press the NO key.



Press the YES key and the unit erases Memo Message.



After 2sec., "RECORD MEMO ?" will appear on the LCD display.

Note:
If you press the NO key, the unit will not erase Memo Message and returns to standby mode.

ERASE MEMO ?

YES key

ERASED

after 2sec.

RECORD MEMO ?

JUN 15 TEL/TAX 04

Conversation

Recording Conversation

The maximum recording time of a Conversation is 3min.

- NOTES:
1. You cannot record a conversation when you are talking over speakerphone. (Recording a conversation is available only when talking with the handset.)
 2. If the remaining TAD memory is less than 30sec., "MESSAGE FULL" will appear on the LCD display. Erase unnecessary messages (ICM, OGM, or memo message).
 3. If a conversation has already been recorded, "MESSAGE IS RECORDED" will appear on the LCD display. Press the YES key and erase the old one.
 4. If you press the STOP key while recording, the unit stops recording. (The recording is invalid.)
 5. When the recording time is fully used, the unit emits a one-second beep tone and stops recording. (The recording is valid.)
 6. If you press the HOLD key while recording, the unit stops recording and sends a holding melody to the party. (The recording is valid.)
 7. Even if you do not press the TALK key before replacing the handset, recording is still valid.

Talking on the phone. Press the TALK key.



OFF HOOK

TALK key

RECORD TALK ?

Press the YES key and the unit will start recording the conversation.



When you finish recording the conversation, press the TALK key.



RECORDING

JUN 15 TEL/FAX 00

Memo Message

Playing back Conversation

TAD key light is off. (Home Mode) Press the TALK key.



NOTES

1. Playing back Conversation is available only when the unit is in standby mode (either Home or Absence mode).
2. If the conversation is not recorded, the unit returns to standby mode.

MESSAGE EXIST

alter 2sec.

PLAY TALK ?

Press the YES key and the unit starts playing the conversation.



After the conversation is played back, the unit emits a beep tone and returns to standby mode.

Notes:

1. If you press the STOP key while playing, the unit stops playing and returns to standby mode.
2. If you press the * key (REW) while playing, the unit replays the conversation from the beginning.
3. If you press the # key (FF) while playing, the unit ignores the action and continues playing.
4. If you press the ERASE key while playing, "ARE YOU SURE ?" will appear on the LCD display. If you press the YES key, the unit erases the conversation.

PLAYING

alter 2sec.

JUN 15 TEL/FAX 04

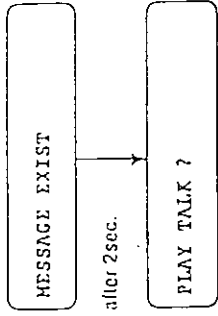
Erasing during Standby Mode

TAD key light is off. (Home Mode)
Press the TALK key.



NOTES:

- Erasing Conversation is available when the unit is in standby mode (either Home or Absence mode) or while the conversation is played back (press the ERASE key while playing), or while talking on the phone (see next page).
- If the conversation is not recorded, the unit returns to standby mode.



Press the NO key.



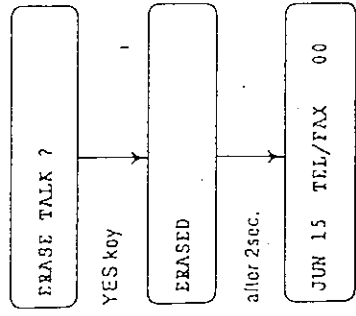
Press the YES key and the unit erases the conversation.



NOTE:

If you press [NO], the unit will not erase the conversation and returns to standby mode.

After 2sec., the unit returns to standby mode.



Erasing during Conversation

Talking on the phone.
Press the TALK key.



NOTE:
If the conversation is not recorded, "RECORD TALK ?" will appear on the LCD display.



Press the YES key and the unit erases the conversation.

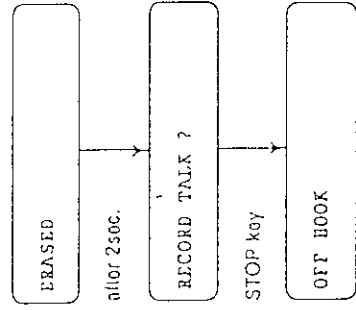


NOTE:

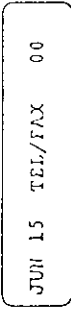
If you press the NO key, the unit will not erase the conversation and returns to standby mode.

After 2sec., "RECORD TALK ?" will appear on the LCD display.

Press the STOP key.



Replace the handset and the unit returns to standby mode.



TAD REMOTE OPERATION

You can call your unit from outside and activate TAD operation using DTMF signals.


Remote Code

Set the Remote Code

You can activate TAD operation from outside by remote operation. In order to use this function, you need to pre-program the remote code using the following procedure.


1 Display the remote code screen

Display the remote code screen by pressing the following keys.


 3 times

THEN



 5 times



 twice

2 Enter the remote code

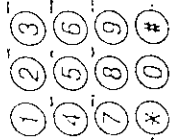
Press the YES key



NOTE:
If the remote code has already been recorded, the numbers appear.
Press [NO] to erase the number.

REMOTE CODE *

Select and enter the 4 digit remote code, using the dial keypad.



Press the YES key



3 Return to the Standby Mode

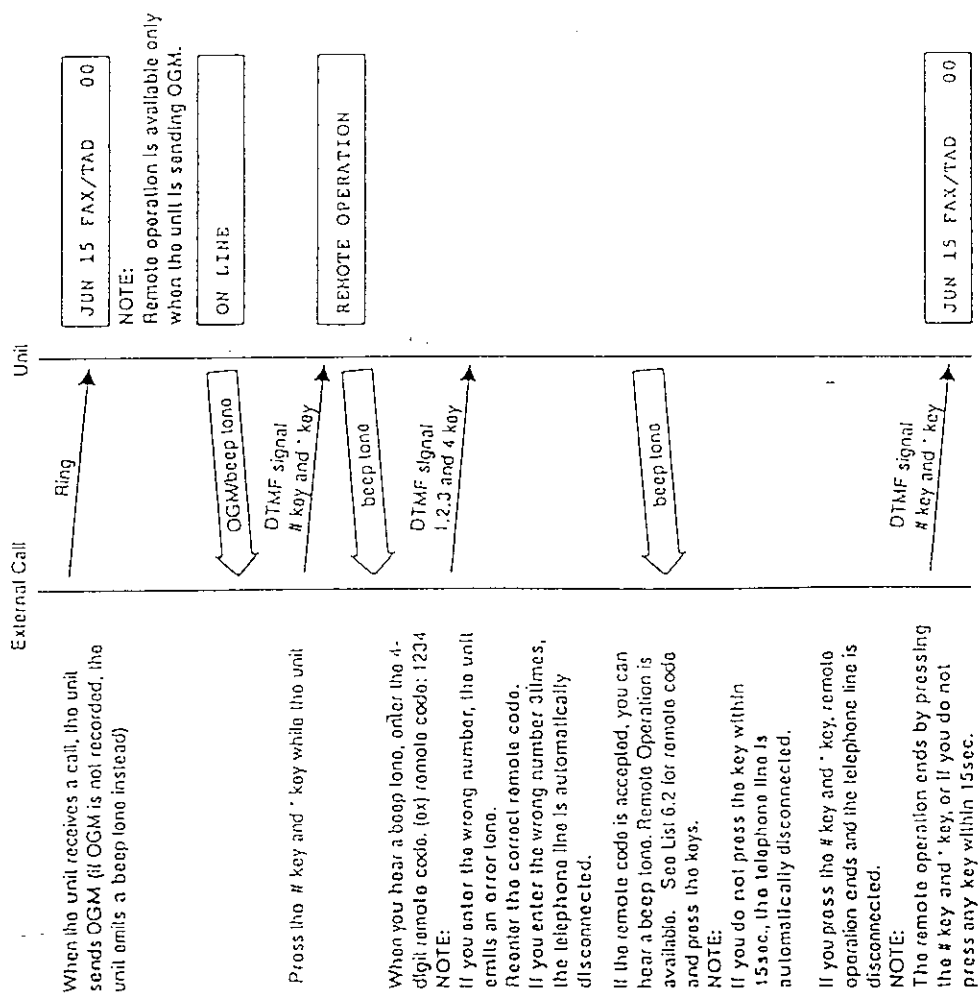
Press the STOP key to return to standby mode.

SET REMOTE CODE ?

SET TAD TIME ?

JUN 15 TEL/FAX 00

TAD Remote Operation



When the unit receives a call, the unit sends OGM (if OGM is not recorded, the unit emits a beep tone instead)

Press the # key and * key while the unit

When you hear a beep tone, enter the 4-digit remote code. (ex) remote code: 1234
NOTE: If you enter the wrong number, the unit emits an error tone.

Reenter the correct remote code. If you enter the wrong number 3 times, the telephone line is automatically disconnected.

If the remote code is accepted, you can hear a beep tone. Remote Operation is available. See List 6.2 for remote code and press the keys.

NOTE: If you do not press the key within 15sec., the telephone line is automatically disconnected.

If you press the # key and * key, remote operation ends and the telephone line is disconnected.

NOTE: The remote operation ends by pressing the # key and * key, or if you do not press any key within 15sec.

TAD Remote Code Table

Below shows the remote code you need to enter in order to activate each TAD operation. You must enter 2 or 3 digits according to the operation you want to do.

REMOTE CODE TABLE

TAD OPERATION	MOVEMENT	REMOTE CODE
PLAY ICM	Play back ICM	# 1 0
PLAY MEMO MESSAGE	Play back memo message	# 1 1
REWIND ICM	Play back the previous ICM	# 2 while playing back
SKIP ICM	Play back the next ICM	# 3 while playing back
STOP PLAYING	Stop playing ICM or memo message	# 4 while playing back
ERASE ICM INDIVIDUALLY	Erase the current ICM placed	# 6 0 while playing back (NOTE1)
ERASE ALL ICM	Erase all ICMs	# 6 0 (NOTE1)
ERASE MEMO MSG	Erase memo message	# 6 1 (NOTE2)
SET ABSENCE MODE	Set the unit to Absence mode	# 9
SET HOME MODE	Releaso Absence mode and set the unit to Home mode	# 9
FINISH REMOTE	FINISH REMOTE OPERATION	# .

NOTE1: When you hear the beep tone, press the #, 6 and 0 key one more time.

NOTE2: When you hear the beep tone, press the #, 6 and 1 key one more time.

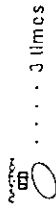
ADVANCED FUNCTIONS - INITIAL INSTALLATION (ADVANCED)

Flash Time

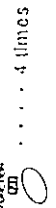
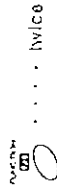
The FLASH key allows you to access special telephone services (if available in your area) or to disconnect calls without hanging up the handset. You can select either 0.5 seconds or 2.0 seconds for the flash time. The default value is 0.5 seconds.

1 Display flash time screen

Display the flash time screen by pressing the following keys:



THEN



2 Select flash time

Press the YES key.



FLASH TIME 0.5S ?

To select 0.5 seconds, press the YES key.



To select 2.0 seconds press the NO key and the YES key in sequence.



FLASH TIME 0.5S ?

NO

FLASH TIME 2.0S ?

NO

SET FLASH TIME ?

3 Return to the Standby Mode

The unit returns to the Standby Mode.

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Journal

Your unit keeps records of its communications. You can get a journal printout after 40 transmissions or 40 receptions automatically. The initial unit setting is "ON".

1 Display auto journal screen

Display the auto journal screen by pressing the following keys.



SET AUTO JOURNAL ?

2 Select auto journal screen

Press the YES key.

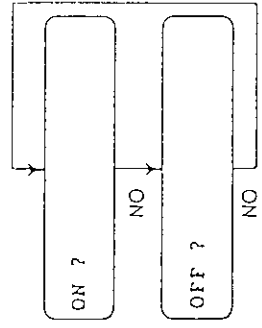


ON ?

To select "ON", press the YES key.



To select "OFF", press the NO key and the YES key in sequence.



3 Return to the Standby Mode

The unit returns to the Standby Mode.

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TTI Position

Your unit can automatically print your ID name and facsimile number (called "Transmit Terminal ID" or TTI) at the top of each page you send.

Normally, the TTI appears inside the area of the document. However, you can change this setting so the TTI is printed immediately above (outside) the document, or is not printed at all. The initial unit setting is **INSIDE**.

NOTE:

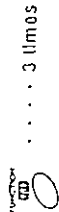
Documents received with the TTI printed outside the document area are slightly longer than the original.

THE TELEPHONE CONSUMER PROTECTION ACT:

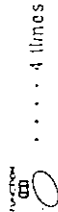
The Telephone Consumer Protection Act of 1991 makes it unlawful for any person to use a computer or other electronic device to send any message via a telephone fax machine unless such a message clearly contains in a margin at the top or bottom of each transmitted page or on the first page of the transmission, the date and time it is sent and an identification of the business or other entity, or other individual sending the message and the telephone number of the sending machine or such business, other entity, or individual. In order to program this information into your fax machine, you should complete the steps on page 16.

1 Display TTI screen

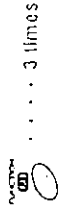
Display the SET TTI screen by pressing the following keys:



THEN



THEN



2 Select the TTI position

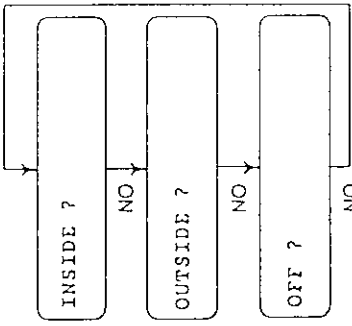
Press the YES key.



Select the TTI position you desire, using the NO key.

Select **INSIDE** to have the TTI printed inside the document area.
Select **OUTSIDE** to have the TTI printed outside the document area.
Select **OFF** if you do not want the TTI printed.

After selecting the desired position, press the YES key.

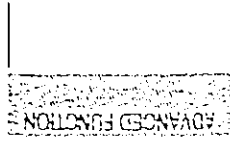


3 Return to the Standby Mode

The unit returns to the Standby Mode.

SET TTI ?

JUN 15 TEL/FAX 00



TX Report

To confirm that documents are sent successfully, you can set up your unit to print out transmission reports. You can choose:

- ON: A report is printed automatically after every transmission.
 - OFF: No reports are printed.
- The initial unit setting is OFF.

1 Display TX report

Display the TX report screen by pressing the TX REPORT key.



SET TX REPORT ?

2 Select TX report screen

Press the YES key.



ON ?

To select "ON", press the YES key.



To select "OFF", press the NO key and the YES key in sequence.



ON ?

NO

OFF ?

NO

66

3 Return to the Standby Mode

The unit returns to the Standby Mode.

When YES key is pressed, header of the transmission draft is recorded in the report and then the selection screen which requests first page image print out or not will appear.

When NO key is pressed, the unit directly returns to the Standby Mode.

DOCUMENT ID ?

To select "ON", press the YES key.



To select "OFF", press the NO key.

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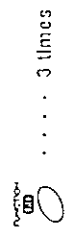
Multi-TX Report

To confirm that documents are sent successfully, you can set up your unit to print out multi transmission reports. You can choose:

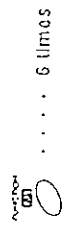
- ON: A report is printed automatically after every transmission.
 - OFF: No reports are printed.
- The initial unit setting is OFF.

1 Display Multi-Transmission report screen

Display the multi TX report screen by pressing the following keys.



THEN



SET MULTI TX REPORT?

2 Select Multi-Transmission report screen

Press the YES key.

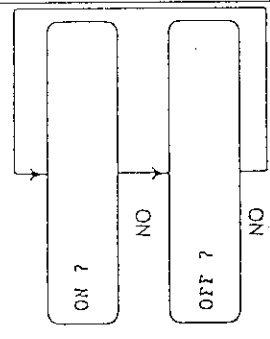


OK ?

To select "ON", press the YES key.



To select "OFF", press the NO key and the YES key in sequence.



3 Return to the Standby Mode

The unit returns to the Standby Mode.

When YES key is pressed, header of the transmission draft is recorded in the report and then the selection screen which requests first page image print out or not will appear.

When NO key is pressed, the unit directly returns to the Standby Mode.

DOCUMENT ID ?

To select "ON", press the YES key.



To select "OFF", press the NO key.

ADVANCED FUNCTION

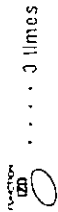
JUN 15 TEL/TAX 00

Redial Interval and Counter

You can change the redial interval (time between redial attempts). It is possible to select 1 to 15 minutes. You can also change the redial counter. It is possible to select a redial counter from 00 to 14 attempts. The default value is 5 attempts.

1 Display set redial screen

Display the set redial screen by pressing the following keys:

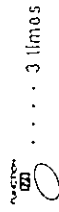


... 3 times

THEN



... twice



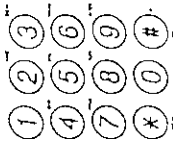
... 3 times

2 Enter the redial interval

If you want to change the setting of the redial interval, press the YES key.



The default value is 3 minutes. If it is acceptable, press the YES key. If no, press the NO key and enter the redial interval using the dial keypad. You can select an interval from 1 to 15 minutes.



INTERVAL (00-15) = 05

For example:

INTERVAL (00-15) = 10

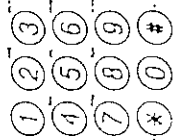
Press the YES key to confirm that the interval you entered is correct.



COUNTER (00-14) = 05

3 Enter the redial counter

The default value is 5 times. If it is acceptable, press the YES key. If you want to change the setting of the redial counter, press the NO key and enter the redial counter using the dial keypad. You can select the counter from 00 to 14 attempts.



COUNTER (00-14) = 05

For example:

COUNTER (00-14) = 11

Press the YES key to confirm that the counter you entered is correct.



SET FLASH TIME ?

4 Return to the Standby Mode

Press the NO key to return to the Standby Mode. It is possible to return the unit to the Standby Mode pressing the STOP key instead.



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TAD Delay

When the unit is set in Absence mode, and a call comes in while you are out, the telephone answering machine starts activating within a pre-set number of rings.

1 Display TAD delay screen

Display the set TAD delay screen by pressing the following keys:

. 3 times

THEN

. 3 times

. 5 times

2 Enter the TAD delay

Press the YES key, and the current value appears.

TAD DELAY(1-9) = 5

The default value is "5". If it is acceptable, press the YES key. If no, press the NO key and Enter the TAD delay using the dial keypad. You can select an interval from 1 to 9.

For example:

TAD DELAY(1-9) = 9

Press the YES key to confirm that the TAD delay you entered is correct.

3 Return to the Standby Mode

Press the STOP key to return to standby mode.

SET TAD DELAY ?

SET TOLL SAVER ?

JUN 15 TEL/FAX 00

ADVANCED FUNCTION

Toll Saver


Toll Saver is a function which you can distinct if any ICMs or memo message is recorded, when the unit is in Absence mode, and you are out.

You make a phone call to your unit, and if there are any ICMs or memo message, the TAD answers within 2 rings, and if not, the TAD answers within 5 rings. Therefore, if the TAD does not answer within 3 rings, you can toll that no ICMs or memo message is recorded.


You need to activate the Toll Saver feature using the following procedure. Initial setting is OFF.


1 Display Set toll-saver screen


Display the set toll saver screen by pressing the following keys:


 3 times

THEN

 5 times


 5 times

 5 times

 5 times


2 Select the Toll-saver screen

Press the YES key.

 3 times


3 Return to the Standby Mode

Press the YES key to confirm that the tollsaver you entered is correct.

 3 times

SET REMOTE CODE ?


Press the STOP key to return to standby mode.




ON ?

To select "ON", press the YES key.

To select "OFF", press the NO key and the YES key in sequence.

 3 times

 3 times

ON ?

OFF ?

SET TOLL SAVER ?

JUN 15 TEL/FAX 00

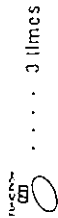
TAD Recording Time

You can select the maximum recording time of an ICM. Initial setting is 30sec.

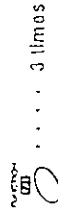
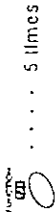
NOTE:
The total recording time of the unit is 15min, at maximum.

1 Display/Set TAD time screen

Display the set TAD time screen by pressing the following keys:



THEN



2 Select the TAD time

Press the YES key.



TAD TIME = 30SEC

To select 30 seconds, press the YES key.



To select 60 seconds, press the NO key and the YES key in sequence.



3 Return to the Standby Mode

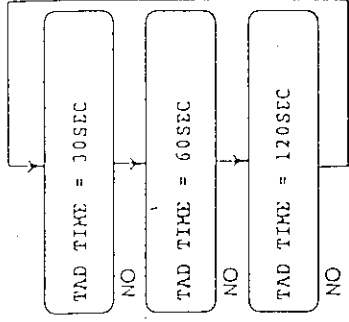
To select 60 seconds, press the NO key and the YES key in sequence.



Press the STOP key to return to standby mode.



ADVANCED FUNCTION



SET TAD TIME ?

JUN 15 TEL/FAX 00

POLLING



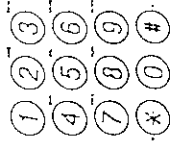

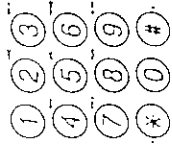

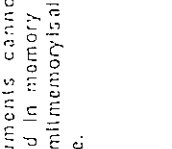





Reserve Polling Transmission

The polling feature allows your unit to send a document when a remote party requests it. You can also command a unit at single or multiple locations to send a document to you.

You can protect your documents from unauthorized remote parties by using security codes.

NOTES:

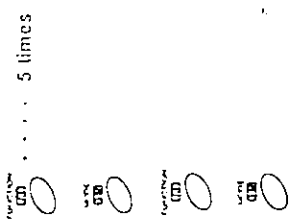
1. You cannot send other documents while your unit is set for polling transmission.
2. When you select the 4-digit security code as a check code, your document can be transmitted to other TOSHIBA equipment only.
3. When using the TEL number as the check code, any other fax unit with a matching TEL number (programmed in its ITI) can poll your unit.
4. When polling is completed, both the 4-digit security code and the security telephone number are automatically canceled.
5. For more information on canceling a polling reservation, see page 76.

<p>1 Load the document.</p>	<p>Load a document face down into the feeder.</p> <p>For more information on loading the documents, see page 31 (Loading Documents), and setting resolution and contrast, see page 32,33 (Setting Resolution and Contrast of Documents).</p>	<p>STD</p>	<p>NORMAL</p>	<p>SECURITY CODE ?</p>	<p>SECURITY TEL ?</p>	<p>MEMORY INPUT</p>
<p>2 Display reserve polling screen.</p>	<p>Display the reserve polling control screen by pressing the following keys:</p> <p> 5 times</p> <p> twice</p>	<p>SECURITY CODE = _</p>	<p>Select and enter the 4-digit security code, using the dial keypad.</p> <p></p>	<p>Press the YES key.</p> <p></p>	<p>SECURITY TEL ?</p>	<p>SECURITY TEL ?</p>
<p>3 Enter security code.</p>	<p>If you do not want to select the 4-digit security code, just press the NO key, and skip to step 4.</p> <p>If you want to select the 4-digit security code, press the YES key.</p>	<p>SECURITY CODE = _</p>	<p>Select and enter the 4-digit security code, using the dial keypad.</p> <p></p>	<p>Press the YES key.</p> <p></p>	<p>SECURITY TEL ?</p>	<p>SECURITY TEL ?</p>
<p>4 Enter telephone number.</p>	<p>If you do not want to select the security telephone number, just press the NO key, and skip to step 5.</p> <p>If you want to select the security telephone number, press the YES key.</p>	<p>TEL = _</p>	<p>Select and enter the security telephone number, using the dial keypad.</p> <p></p>	<p>Press the YES key.</p> <p></p>	<p>SECURITY TEL ?</p>	<p>MEMORY INPUT</p>
<p>5 Select memory transmission.</p>	<p>Press the YES key if you want to store the document into memory.</p> <p></p> <p>If you selected NO, the document remains on the document tray until the polling function is completed.</p> <p></p>	<p>MEMORY 08 \ USED</p>	<p>NOTE: Documents cannot be stored in memory while transmit memory is already in use.</p>	<p>Scan to memory:</p> <p></p>	<p>Document In AOF:</p> <p></p>	<p>POLL. RSV.</p>

Polling Reception

1 Display polling receive screen

Display the polling receive control screen by pressing the following keys:



2 Enter start limo

If you want to receive the document immediately, just press the NO key, and skip to step 3.



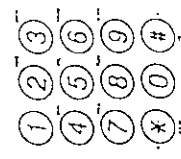
If you want to receive at a specific limo, press the YES key.



limo:MM=

Enter the start limo using the dial keypad. Use 24-hour format to enter the specific limo.

(i.e., 9:00 AM - 09:00
6:00 PM - 18:00)



Press the YES key.



DELAYED POLL ?

SECURITY CODE ?

3 Enter security code

If you do not want to select the 4-digit security code, just press the NO key, and skip to step 4.

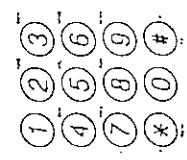


If you want to select the 4-digit security code, press the YES key.



SECURITY CODE =

Select and enter the 4-digit security code, using the dial keypad.



Press the YES key.



SECURITY TEL ?

4 Enter telephone number

Press the YES key.



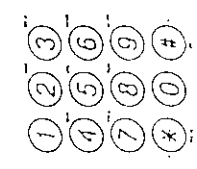
<Single polling>

Enter the remote party's facsimile number using the dial keypad on the operator control panel.



NOTE: Abbreviated dialing and one-touch dialing are also available.

Enter the telephone number using the dial keypad on the operator control panel, and press the YES key.



NOTE: When using the dial keypad, up to 5 numbers can be entered.

If using abbreviated dialing, press the ABB, DIAL key twice, and then enter the abbreviated number and the YES key.

If using one-touch dialing, press the one-touch key.

To specify multiple addresses, repeat the process of entering telephone numbers as required.

ADVANCED FUNCTIONS

ADVANCED TRANSMISSION FUNCTION

Delayed Transmission

You can use your facsimile's automatic transmission function to send a document to another unit at a specific time.

This function is convenient for making use of the night time discount telephone rates for overseas communication.

This setting is automatically canceled after the sending session.

The method of making a single transmission (to transmit a single document to a specified destination) is described here. For more information, refer to the respective operating procedures.

NOTE:

While the documents are reserved for a delayed transmission, documents can be received from the remote parties, but other transmission operations are unavailable.

If you want to send while a delayed transmission operation is pending, you will need to cancel the delayed transmission. If you want to cancel the delayed transmission, press the STOP key.

1 Load the document!

Load the document facedown in the document tray. Gently insert the first page into the unit.

For information on loading the document, see page 31.

For information on setting resolution and contrast, see page 32, 33.

2 Display the delay time screen

Display the option screen by pressing the following keys:



... 4 times

THEN



3 Select the delayed transmission

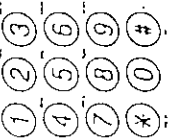
Press the YES key.



4 Enter the transmission time

Enter the desired time using the dial keypad on the operator control panel. Use the 24-hour format to enter the specific time.

(i.e., 9:00AM -09:00
6:00PM +18:00)



Press the YES key.



5 Dial the remote number

Enter the telephone number using the dial keypad on the operator control panel.

NOTE:
Abbreviated dialing and one-touch dialing are also available.



Press the YES key.



DELAYED TX

The unit dials and sends the documents at the specified time. If the line is busy, the unit will automatically redial according to the redial pattern previously set.

When the transmission is completed, the unit returns to the Standby Mode.

STD

NORMAL

SET TX TIME ?

HH:MM= _ _

STD NORMAL

Multi-address Transmission

You can send a document to multiple remote parties with the ABB, DIAL key and 2-digit numbers or the one-touch key.

Your unit will dial the remote numbers in stored sequence.

If a facsimile number is busy, your unit will dial the next stored remote party and after dialing all of the remote parties, will automatically redial the number previously busy.

NOTE:
The parties you are calling must have a unit ready to receive documents automatically.

1 Load the document
down in the document tray.

For information on loading the documents, see page 31.

For information on setting resolution and contrast, see page 32.33.

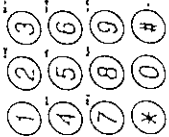
2 Press the MEMORY key

Press the MULTI key on the operator control panel.



3 Enter the telephone number
using the dial keypad.

If using abbreviated dialing, press the ABB, DIAL key twice, and then enter the abbreviated number with the dial keypad on the operator control panel, and the YES key.



If using one-touch dialing, press the one-touch key. To specify multiple addresses, repeat the process of entering the telephone numbers.

NOTE:
The number of destinations you can enter using the dial keypad on the operator control panel is maximum 5.

For example:

TOSUIDA

After 2 seconds:

ENTER MORE OR [START]

4 Send the document

After entering all the addresses, press the START key.



Your unit reads the document into memory and the following message appears on the LCD display.

Then the unit sends the document. The LCD display follows the progress of the multi-address transmission.

Your unit will dial the remote numbers in stored sequence.

If a facsimile number is busy, your unit will dial the next stored remote party and after dialing all of the remote parties, will automatically redial the number previously busy.

NOTE:
If you want to cancel a transmission in progress, press the STOP key.

For example:

MEMORY 10 USED

NOTES:
1. If the amount of document data is too great, the unit's page memory may overflow. Documents will be led out automatically from the document tray, and the documents read into memory will be erased.
MEMORY OVERFLOW will appear on the LCD display. To operate properly, see page 90 (MEMORY OVERFLOW).

2. If you use this function, the sending related operations are not available until the multi-address transmission is completed.

ADVANCED FUNCTIONS

Canceling Reserved Communication

You can cancel a reserved communication.

DOCUMENT FEEDER:

Documents loaded in the document feeder for delayed transmission or polling transmission is canceled.

MEMORY: Documents in memory for delay, multi-address, or polling transmission is canceled.

POLLING: The delayed polling is canceled.

1 Press the RESET key

Press the STOP key to cancel a reserved communication.



2 Select the reserved communication

Press the YES key.



Select the reserved communication you want to cancel, using the NO key.



3 Select from the display

If you want to cancel the reserved communication, press the YES key.

The cancel list is printed out.



If you don't want to cancel the reserved communication, press the NO key.

4 Return to the Standby Mode

The unit returns to the Standby Mode.

When a transmission using the document feeder is reserved:

DOCUMENT FEEDER ?

When a transmission using the memory is reserved:

MEMORY ?

When a delayed polling is reserved:

POLLING ?

CANCEL ?

When pressing the YES key:

CANCELED

After 2 seconds:

PRINTING

















JUN 15 TEL/FAX 00

Security Transmission (Closed Network)

Security transmission prevents your fax unit from sending to an invalidly dialed phone number.

NOTE:

This function cannot be used with handset dialing, and on-hook dialing.


<p>1 Load the document.</p>	<p>Load the document facedown in the document tray. Gently insert the first page into the unit.</p> <p>For information on loading the document, see page 31.</p> <p>For information on setting resolution and contrast, see page 32-33.</p>	<p>STD NORMAL</p>
<p>2 Display the security TX screen.</p>	<p>Display the security TX screen by pressing the following keys.</p> <p>  4 times</p> <p> </p> <p> </p>	<p>SET SECURITY TX ?</p>
<p>3 Select the security TX.</p>	<p>Press the YES key.</p> <p> </p> <p> </p> <p>To select "ON", press the YES key.</p> <p> </p> <p>To select "OFF", press the NO key and the YES key in sequence.</p> <p> </p> <p> </p>	<p>STD NORMAL</p>
<p>4 Send the document.</p>	<p>Send the documents by keypad dialing, abbreviated dialing or one-touch dialing (see pages 35 to 39).</p> <p>When transmission is completed, security transmission setting is automatically canceled.</p>	<p>ADVANCED FUNCTIONS</p>

NOTE:
If the remote facsimile has a phone number different from the number you dialed in its TTI, a "FEATURE UNAVAILABLE" prompt will be displayed and the call will be canceled.

ECM (Error Correction Mode)

When using the ECM function (default setting is ON), a single transmission can be made by setting ECM to OFF.

Initial ECM setting:
If you want to send or receive all documents without the ECM function, turn off the initial ECM setting by pressing the following keys.

 3 times









 4 times





 4 times



 .  and 




NOTE:
The image memory capacity can be increased by the setting ECM OFF.
However, transmission errors caused by poor phone line conditions will not be corrected with ECM set to OFF.

1 Load the document

Load the document face down in the document tray.
Gently insert the first page into the unit.
For information on loading the document, see page 31.
For information on setting resolution and contrast, see page 32,33.




STD NORMAL

2 Display the ECM screen

Display the ECM screen by pressing the following keys.
 4 times

 twice

SET ECM ?

3 Select the ECM

Press the YES key.


(When the previous setting is OFF.)
or

(When the previous setting is ON.)
Select ON or OFF using the NO key, then press the YES key.

STD NORMAL

4 Set the documents

Send documents by keypad dialing, abbreviated dialing or one-touch dialing (see pages 35 to 39).
When transmission is completed, setting ECM to OFF is automatically canceled.

Chain Dialing Operation

Allows you to dial locations that may require more than 30 digits.

For example:

Long distance carriers and specialized access lines. After you have stored the number, you can transmit as follows.

NOTE:

Before you can use this feature, you must assign the number to be used for chain dialing to a one-touch key (see page 22).

Programming a one-touch key for chain dialing:

If you want to use chain dialing, you must program a one-touch key for chain dialing. Input the first chain dialing number, enter a pause (-) by pressing the PAUSE key.

For example, to store 950 as a first chain dialing number, press the 9, 5 and 0 on the dial keypad. Then press the PAUSE key.

1 Press the START key

Load the document face down in the document tray. Gently insert the first page into the unit.

For information on loading the documents, see page 31.

For information on setting resolution and contrast, see page 32, 33.

2 Press the START key

Press the one-touch key stored as the chain dialing.



For example:
If the long distance carrier's access number has been stored into the one-touch key labeled 01, press this key first and proceed to step 3.

NOTE:
The feature can be used with the MONITOR key to allow listening to any voice prompts involved with the procedure.

3 Press the START key

Press the additional dialing numbers using one-touch key, abbreviated dialing number and/or a dial keypad on the operator control panel.

NOTE:

The total sum of digits dialed (access + number + ID) can not exceed 120 digits.

4 Press the START key

Press the START key to send the document.



Your unit will dial the number, confirm the connection, and send the document.

An ending tone sounds when the transmission is completed and date reappears.

NOTE:

If your document is not sent successfully, "COMMUNICATION ERROR" appears on the LCD display. Press the STOP key to return to the Standby Mode.

ADVANCED FUNCTIONS

LCD DISPLAY:

950 - _

STD

NORMAL

950 - _

950-123456789 _

DIALING COMPLETED

JUN 15 FAX 00

ADVANCED RECEPTION FUNCTION

Memory Reception (Substitute Reception)

When the recording paper is depleted during reception, or is jammed, etc. (rendering it impossible to print the received documents) the unit stores the reception documents into memory as a substitute reception.

When this occurs:
the MEMORY LED lights.

You can print out the stored reception document from memory after you reinstall the recording paper.

NOTES:

1. Do not turn the power off. Otherwise, the reception document in memory will be lost.
2. If such documents are lost, replace the recording paper, and then output the communication record and contact the transmitting party.

1 Correct the fault

Correct the fault concerning the printer, such as:

PAPER EMPTY
(see page 8.)

PAPER JAM
(see page 95.)

INK FILM EMPTY
(see page 10.)

TPH OVERHEAT
(see page 89.)

2 Print out the received document

After correcting the fault, your unit will print out the received document automatically.

The received document will be automatically erased after printing out all received documents.

If the recording paper is jammed while received documents are being printed out, you can print out the received documents again without losing of data.

Remote Receive

If another telephone is connected to the "TEL Connector" of your unit (refer to page 3) you can set the facsimile to the receive mode using this second telephone.

Also if another telephone is connected to the telephone line in parallel with the facsimile unit, you can set the facsimile to the receive mode by using this third telephone.

Also you can stop the facsimile's receive mode and connect to this third telephone.

	Activation		De-activation	
	RX Mode	Dial Type operation	RX Mode	Dial Type operation
EX.TEL Cascade	any mode	MF-[5]#[#] OP-[5]		
EX.TEL Parallel	TEL	MF	TEUFAX	MF [6]#[#]

NOTES:

1. Only a MF type telephone is effective for this operation.
2. When using the third telephone (connected to the telephone line), the remote reception is available during the first 60 seconds after you pick up the handset.

To set the remote receive mode, the following operations are necessary.

1 Display the remote control screen

Display the remote receive screen by pressing the following keys:

. 3 times

THEN

. 4 times

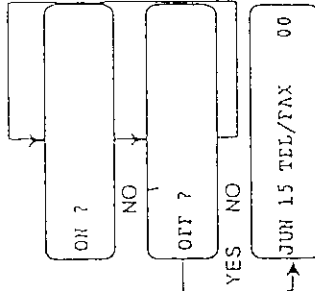
2 Select the remote receive

Press the YES key.

OK ?

To select "ON" press the YES key.

To select "OFF" press the NO key and the YES key in sequence.



Operation for the remote receive

Activation (to set facsimile to receive mode)
When you are talking with your party with the second or third telephone and the party requests to send a document, or when the receiver is emitting a high pitched sound, you need to operate as follows in order to start the activation.

MF type:

Press "5" of the dial keypad and then "#" on the handset of the remote phone.

DP type:

Press "5" of the dial keypad on the handset of the remote phone.

When using the external telephone connected in parallel, the operation must be done during the first 30 sec. after you pick up the handset.

De-activation (to stop facsimile's receive mode and connect to the external telephone connected in parallel)

Press "6" of the dial keypad and "#" on the handset of the remote phone while pseudo bell is ringing.

SET REMOTE CONTROL ?

Privileged Reception

Privileged Reception allows your fax unit to only communicate with remote units that have been programmed into your telephone directory.

PRIVILEGED RECEPTION:

This function starts receiving only when the caller's number is stored as an abbreviated number in your unit.

If the caller's number is not stored, this function assumes it to be a communication error, thus enabling you to receive documents only from desired sources.

NOTES:

Upon answering incoming calls, your facsimile compares the last 5 digits of the Terminal ID (telephone number) programmed into the remote unit to the telephone numbers programmed into your facsimile's abbreviated telephone directory.


To use this feature you

MUST:

1. Make sure that all of the fax units you wish to communicate with have correctly programmed their telephone number into their fax unit's Terminal ID (TI).
2. Pre-program the tele-phone numbers of the facsimile units you wish to communicate with into your abbreviated telephone directory (up to 61 abbreviated and one-touch numbers may be used). Then activate the Privileged RX feature using the following procedure.


1 Display the privileged RX screen

Display the privileged reception screen by pressing the following keys:

 3 times


THEN



 4 times



THEN

 1w/co

2 Select the Privileged RX

Press the YES key.



OK ?

To select "ON", press the YES key.



To select "OFF", press the NO key and the YES key in sequence.





OK ?

NO

OFF ?

NO

3 Return to the Standby Mode

The unit returns to the Standby Mode.

SET PRIVILEGED RX ?

JUN 15 TEL/FAX 00

OPERATING LISTS

Communication Journal

NDR: Lists the transactions in the order as they took place (001 to 999).

DURATION: Gives the length of each transaction in minutes and seconds.

PGS: Gives the number of pages sent or received with each transaction (00 to 99).

STATUS: OK (successful transmission) or NG (unsuccessful transmission).

Error Codes are shown in the status column. (See page 98.)

NOTES:

- When error code 50 (Auto dial error) is shown, neither OK or NG is shown in the status column.
- When English is selected during language selection, dates are displayed in the order of month/day/year on the lists. When Spanish, French or Portuguese is selected in language selection, dates are displayed in the order of day/month/year on the lists.

TO: Printed on Transmission Journal only. Gives the remote party's ID name or telephone number (30 digits maximum).

FROM: Printed on Reception Journal only. Gives the remote party's ID name or telephone number (30 digits maximum).

MODE: Indicates how the document was sent or received:

EX: Means error correction mode to another TOSHIBA unit.

HS: Means high speed transmission to another TOSHIBA unit.

G3: Means that high speed transmission was not used.

Communication was made with a non-TOSHIBA unit.

EC: Means error correction mode.

P: Means polling transmission or polling reception.

M: Indicates a memory transaction.

The journal records the results of your unit's transmissions and receptions. The journal capacity is 40 transmissions and 40 receptions maximum. You can set up your unit to print out the journal automatically after every 40 transmissions or every 40 receptions. (See page 64.)

To print out the communication journal, follow the steps below. Press the FUNCTION key and the YES key twice.

NOTE:

The journals are printed together if you manually print a journal. However, once the unit is setup to print journals automatically, the journals print individually as the required 40 transmissions and 40 receptions are completed.

TRANSMISSION JOURNAL		TIME	TEL NUMBER	NAME	DATE	TIME	DURATION	PGS	TO	MODE	STATUS
001	JUN.12	13:11	00/37	00	TAKI	IRVIN	GJ	RG	10		OK
002	JUN.12	15:38	00/45	01	01234577	HS	H	HS	H		OK
003	JUN.12	15:39	00/44	01	23456789						OK
004	JUN.12	15:42	00/20	01	REDFIELD	HS		HS			OK
005	JUN.12	15:43	00/31	01	042583250	DS		DS			OK

RECEPTION JOURNAL		TIME	TEL NUMBER	NAME	DATE	TIME	DURATION	PGS	FROM	MODE	STATUS
001	JUN.12	17:13	00/42	01	01234567	US	H	US	H		OK
002	JUN.12	17:28	00/34	00	01234577	HS		HS			OK
003	JUN.12	17:33	00/33	01	MITCHELL	HS	P	HS	P		OK

OPERATING LISTS

FAX 1F411

Transmission Report

There are 3 types of transmission reports: a single TRANSMISSION REPORT, a MEMORY TRANSMISSION REPORT and a MULTI-TRANSMISSION REPORT. Each report is printed out after communication is completed. Each Transmission Report is setup as a system control option.

- Setup your unit to print each report:
- Automatically after each transmission
 - No report printed at all

TRANSMISSION REPORT is the results of the last document your unit sent. (See example to the upper right.)

MEMORY TRANSMISSION REPORT is the results of memory-address transmissions. (See middle right.)

MULTI-TRANSMISSION REPORT is the results of multi-address transmissions. (See lower right.)

NOTES:

1. When the document ID setting is on, in case of the memory TX with the document ID set to on, a partial of the first draft will be printed at lower side of the REPORT regardless of the SUCCESSFUL or UNSUCCESSFUL. In case of the MULTI TRANSMISSION, a partial of the first draft will be printed on next page of the REPORT. (Refer to page 66, 67.)

TRANSMISSION REPORT					
TIME	TEL NUMBER	NAME	MODE	STATUS	
JUN 15 '98 17:26	+1123456789	TOSHIBA	HS	OK	
MEM DATE	TIME	DURATION	PGS TO	MODE	STATUS
007 JUN 15 17:25	00/25	01	KLHKO	HS	OK

MEMORY TRANSMISSION REPORT					
TIME	TEL NUMBER	NAME	MODE	STATUS	
JUN 15 '98 19:35	+1123456789	TOSHIBA UDA	HS	OK	
MEM DATE	TIME	DURATION	PGS TO	MODE	STATUS
128 JUN 11 19:34	00/40	01	207	HS	OK

MULTI-TRANSMISSION REPORT							
TIME	TEL NUMBER	NAME	MODE	STATUS			
JUN 15 '98 17:30	+1123456789	TOSHIBA	HS	OK			
OT NUMBER	MEM DATE	TIME	DURATION	PGS TO	MODE	STATUS	
01	07						
ABB. NUMBER	MEM DATE	TIME	DURATION	PGS TO	MODE	STATUS	
01							
START TIME	END TIME	PAGES					
JUN 06 '98 17:30	JUN 06 '98 17:30	01					
SUCCESSFUL TEL NUMBER	ABB. NUMBER	MEM DATE	TIME	DURATION	PGS TO	MODE	STATUS
ABC	01						
DEF	02						
JXL	01						
UNSUCCESSFUL TEL NUMBER	ABB. NUMBER	MEM DATE	TIME	DURATION	PGS TO	MODE	STATUS

NBR: Gives the transaction number (001 to 999).

DURATION: Gives the length of each transaction in minutes and seconds.

PGS: Gives the number of pages sent in this transaction (01 to 99).

TO: Gives the remote party's ID name or telephone number (38 digits maximum).

MODE: Indicates how this document was sent:

HS: Means high speed transmission to another TOSHIBA unit.

G3: Means that high speed transmission was not used.

EC: Means error correction mode.

P: Means polling transmission or polling reception.

M: Indicates a memory transaction.

STATUS: OK (successful transmission) or NG (unsuccessful transmission).

Error codes are shown in the status column. (See page 90.)

NOTE: When the error code 50 (Auto dial error) is shown, neither OK or NG is shown in the status column.

Telephone Number List

The telephone number list shows all of the numbers stored for One-touch Dialing and Abbreviated Dialing.
To print out the telephone number list, follow the steps below.

Press the FUNCTION key, followed by the YES and NO keys, then press the YES key.

ONE TOUCH KEY INFORMATION

TIME : JUN 15 '98
TEL NUMBER : +1122456789
NAME : TOSHIBA USA

OT NBR NAME TEL NUMBER

- 01 TOSHIBA JAPAN 207
- 02 DLF 789
- 07 ABC 209
- 10 CHI 0123456789

REJECT TEL NUMBER INFORMATION

REJECT NBR NAME TEL NUMBER

- 01 AAA 303
- 02 BBB 13579
- 03 CCC 24680

ABBREVIATED TEL NUMBER INFORMATION

TIME : JUN 15 '98
TEL NUMBER : +1122456789
NAME : TOSHIBA USA

ABB. NBR NAME TEL NUMBER

- 05 JKL 209
- 04 MNO 987654
- 15 PQR 456789
- 22 TUV 2580169

OPERATING LIST

Function List

You can print out the FUNCTION LIST to confirm the system control settings on your unit.

To print out the FUNCTION LIST, follow the steps below.
 Press the FUNCTION key and the YES key.
 Press the NO key twice and then the YES key in sequence.

FUNCTION_LIST	TIME	JUN 15 '98 08:56
	TEL NUMBER	+11224567890
	NAME	TOSHIBA
* RECEIVE MODE SETTING *		TEL/FAX
* CONTRAST SETTING *		NORMAL
* INITIAL SETTING *		
	. DIAL TYPE	MF
	. MONITOR LEVEL	5
	. REDIAL	0J
	. INTERVAL	05
	. COUNTER	0.59
	. FLASH TIME	
* PRINTER SETTING *		
	. RX REDUCTION	ON
	. DISCARD	OFF
* COMMUNICATION SETTING *		
	. REMOTE RECEIVE	ON
	. RING DELAY	0
	. PRIVILEGED RX	OFF
	. TTI	INSIDE
	. ECH	ON
	. DISTRACTIVE RING	OFF
	. CALLER ID	OFF
* TAD SETTING *		
	. TAD DELAY	5
	. TOLL GABER	OFF
	. TAD RECORDING TIME	100SEC
* LIST SETTING *		
	. AUTO JOURNAL	5
	. TX REPORT	OFF
	. DOCUMENT ID	ON
	. MULTI ID	ON
	. DOCUMENT ID	ON
* TOTAL PAGE *		
	. SCAN	000533
	. PRINT	000311

Reservation List

The reservation list shows currently stored document for delay time communication. The report can be printed at any time.

To print out the RESERVATION LIST, follow the steps below.
Press the FUNCTION key and the YES key.
Press the NO key 3 times and then the YES key in sequence.

RESERVATION LIST	TIME	JUN 15 '98 11:35
	TEL NUMBER	+1234567890
	NAME	TOSHIDA
1. DOCUMENT TRANSMISSION		
OT NUMBER		
APP. NUMBER		
TEL NUMBER		
TIME OF TRANS.		
2. MEMORY TRANSMISSION		
OT NUMBER	01	
APP. NUMBER		
TEL NUMBER		
TIME OF TRANS.	12:00	
NUMBER OF PAGES	01	
3. POLLING RECEPTION		
OT NUMBER		
APP. NUMBER		
TEL NUMBER	123456719	
TIME OF POLL	18:00	

OPERATING LIST

Cancel List

The unit prints out a cancel list when reservations are canceled.

CANCEL LIST		TIME : JUN 15 '98 11:38	
		TEL NUMBER : +11234567890	
		NAME : TOSHIBA	
1. DOCUMENT TRANSMISSION			
OT NUMBER			
APP. NUMBER			
TEL NUMBER			
TIME OF TRANS.			
2. MEMORY TRANSMISSION (POLLING) **CANCELED**			
OT NUMBER			
APP. NUMBER			
TEL NUMBER		78165	
TIME OF TRANS.			
NUMBER OF PAGES		01	
3. POLLING RECEPTION			
OT NUMBER			
APP. NUMBER			
TEL NUMBER		4521	
TIME OF POLL.		15:00	

When the power fails, "--CANCELED BY POWER FAILURE--" is displayed instead of "--CANCELED--".

Printed only when polling transmission has been reserved.

TROUBLESHOOTING

Error Messages

These error messages appear on the LCD display when the unit cannot operate properly due to mechanical or electrical problems...

- NOTES:
1. If the error message remains on the LCD display, press the STOP key to clear the display.
 2. If a problem can not be corrected as described in the following, contact your service representative.

Error Message

PAPER EMPTY

Cause / Solution

The recording paper supply has been depleted. Install the recording paper. See page 8 (installing the Recording Paper).

COVER OPEN

The top cover is open. Close the cover.

DOCUMENT JAM

The original document you are sending is jammed in the unit. Clear the jammed document (See page 94). Press the STOP key.

MEMORY ERASED

Programmed numbers and initial installation data are erased. Press the STOP key. This resets the initial data stored by the back-up battery.

MEMORY REC. LOST

The document received in memory is erased if the unit is disconnected from power. Confirm the remote party by printing out the reception journal.

Error Message

PAPER JAM

Cause / Solution

The recording paper has jammed in the unit. Open the top cover. Remove the jammed paper. See page 95 (Clearing a Recording Paper Jam).

TPH OVERHEAT

The thermal print head (TPH) has overheated. Power to the print head is automatically turned off temporarily.

Wait a few minutes for the print head to cool before operating the unit again.

POWER FAILURE

A power failure occurred while sending or receiving a document. Check whether the document was sent successfully. See page 83 (Communication Journal).

Press the STOP key to clear the LCD display.

Send the document again or receive the document again if necessary.

Error Messages - cont.

Error Message	Cause/Solution
LINE BUSY	<p>The telephone number you are trying to call remained busy through all redial attempts.</p> <p>Press the STOP key, confirm the phone number, then send the document at a later time.</p>
COMMUNICATION ERROR	<p>Your document was not sent successfully.</p> <p>Press the STOP key, then send the document again. If problems continue, check with your local telephone company.</p>
FEATURE UNAVAILABLE	<ol style="list-style-type: none"> You have attempted to use a memory transmission feature while your unit's memory is in use. <p>Either wait for the existing activity to be completed or cancel that activity.</p> This communication was canceled due to system incompatibility. <p>Run a FUNCTION LIST (See page 86) and check whether you have selected either security transmission (see page 77) or privileged reception (see page 82).</p> <p>If these features are off, check with the remote station to see if they have activated some sort of closed system or network.</p>

Error Message	Cause/Solution
INK FILM EMPTY	<p>The remaining length of the ink film is less than 10%.</p> <p>The printer system stops.</p> <p>By pressing STOP key, LCD display returns to standby mode.</p>
MESSAGE FULL	<p>The remaining TAD memory is less than 30 sec.</p> <p>Erase unnecessary messages. (See page 54.)</p>
INK FILM EMPTY	<p>The ink film is empty. The printer system stops.</p> <p>Replace with a new ink film. (See page 10.)</p>
MEMORY OVERFLOW	<p>The memory has become full. Any documents being stored are automatically ejected.</p> <ul style="list-style-type: none"> You can reduce memory storage requirements by changing the resolution setting from SF to FINE or from FINE to STD. Avoid using GR mode. Print out any pages received into substitute memory. Deactivate ECM for one transmission. (See page 78.) Reduce the number of originals you are planning to send. <p>Try sending the document again confirming the residual memory.</p>

Transmission Problems

Problem	Cause	Solution
When you place a document in the document feeder tray, nothing happens.	You have a machine error.	Check the display for an error message. (See Error Message section, pages 89, 90.)
	There is no power to the unit.	Clear the error. Press the STOP key to clear the LCD display. Make sure the power plug is plugged into an AC outlet and that the main power switch is ON. (See page 7.)
	The document size or thickness is not acceptable.	Use only acceptable documents. (See page 30.)
When you press the START key, the ONLINE message does not appear on the display.	You replaced the handset before you pressed the START key.	Send the document again, being sure to press the START key before replacing the handset.
When you load a document in the document feeder tray, it is not fed into the unit.	The control panel is not firmly latched.	Latch the operator control panel again, pressing it at both sides. Make sure the panel is firmly latched.
The document appears crooked when transmitted.	The document guides were not adjusted for paper size.	Adjust document guides.
	The operator control panel is not firmly latched.	Latch the operator control panel again, pressing it at both sides. Make sure both sides of the panel are firmly latched.
The sending procedure was done correctly, but a communication error occurs.	The remote party's unit is not compatible with yours.	Verify the remote party's unit is CCITT group 3 compatible. If the unit is compatible, try again.
	The remote party's unit is not operational (out of paper, jammed, etc.).	Check to make sure the remote party's unit is operational. If so, try again.

Problem	Cause	Solution
The sending procedure was done correctly, but the document is completely blank.	You loaded the document face side up. The operator control panel is not latched properly.	Load the document face down, and resend. Insure that the operator control panel is latched on both sides properly. Make a copy to confirm proper scanning operation.
When the remote party gets your document, it is difficult to read.	Your document scanner is dirty or obstructed.	Make a copy of the document. If your copy is difficult to read, clean the document scanner. (See page 96.)
	Incorrect resolution or contrast for the document.	Make a copy, and check that the resolution and contrast are correctly set. Then send it again.
	Poor telephone line conditions. This is the likely cause if the copies you made are clear.	Send it again when normal line conditions are restored.
	The original document is of poor quality.	Improve the original document quality in any way possible (copying with darker print, enlarging or reducing, etc.). If there is any doubt, make a copy of the document before sending.
One-touch or abbreviated dialing does not work.	Abbreviated or one-touch dialing numbers is not correctly programmed in your unit.	Check the number programming, and correct it if necessary. Be sure to include all required access codes and pauses.
When you attempt to dial directly using the handset, you get no dial tone.	The telephone cord is disconnected. There is no dial tone at the wall jack (check using a single line telephone set).	Reconnect the cord. Your phone line is inoperative. Contact your telephone company or PBX service representative.

Reception Problems

Problem	Cause	Solution	Problem	Cause	Solution
When you are to receive a document and you press the START key, nothing happens.	You have a machine error.	Check the display for an error message. Clear the error. Press the STOP key to clear the display. (See the Error Message section.)	The document received is difficult to read.	The original document was of poor quality.	Request the remote party to improve the document quality in any way possible (copying with darker print, enlarging or reducing, etc.).
A document is still in your unit.	Press the STOP key and remove the document.		Poor telephone line conditions.	Request the remote party to send the document again.	
There is no power to the unit.	Check that the power plug is plugged into AC outlet and that the main power switch is ON.		The remote party's unit requires adjustment.	Have the remote party make a copy of the document and check its quality. If the quality is poor, the problem is in the remote party's unit.	
In manual receiving mode, you replaced the handset before pressing the START key.	Press the START key and then replace the handset.		You are using paper with a rough or textured surface.	For maximum ink transfer use a smooth, non-textured recording paper.	
The top cover is not firmly latched.	Latch the top cover again, pressing it at both sides. Make sure the top cover is firmly latched.		You receive a document that is completely blank, even though you and the remote party followed the correct procedures.	Your ink film is installed wrong side up. The unit cannot print.	Reinstall your ink film correctly. (See page 10.)
The remote party's unit is not operational. (Document is jammed, etc.).	Check to make sure the remote party's unit is operational. If so, try again.		The remote party loaded the document upside down.	Check with the remote party to make sure the document was loaded upside down.	
The remote party's unit is not compatible with yours.	Verify the remote party's unit is ITU/CCITT group 3 compatible. If the unit is compatible, try again.		The top cover is not closed correctly.	Latch the top cover again.	
The recording paper does not feed.	Latch the top cover again, pressing it at both sides. Make sure the top cover is firmly latched.		The operator control panel may not be latched properly on one side. (On the transmit side.)	Request the remote party to make sure the document was loaded correctly.	
Recording paper is jammed.	Remove the paper.		Your unit is set to Privileged RX.	Disable the Privileged RX Feature on page 82 or confirm the correctness of the feature.	
The ink film has run out.	Install the new ink film.		The calling facsimile unit is incompatible.	Confirm the remote unit compatibility.	
Your recording paper has been replaced, but the PAPER EMPTY error message remains on the LCD display.	Your recording paper is not installed correctly. (See page 6.)				

Telephone Problems

Problem	Cause	Solution
You dial correctly, but your call is not completed.	Your unit is not set to the correct dialing mode. (tone or pulse)	Set your unit to the correct dialing mode.
	Your telephone cord is disconnected.	Reconnect the cord.
	You have no dial tone at the wall jack (Check using a single line phone set).	Contact your phone service provider or PBX service representative.
You can dial the remote parties, but you cannot receive an incoming call.	You are in manual (TEL) mode and the ring volume switch is set to OFF.	Make sure the ring volume switch is not set to "OFF".
	In FAX mode, the Ring Delay is set to 0.	Set the Ring Delay to 1 to 9 rings. (See page 45.)
When the Speakerphone is used, the remote party's speaking is interrupted.	You and the remote party are speaking at the same time.	Start speaking after the remote party finishes speaking.

TAD Problems

Problem	Cause	Solution
In the absence mode, the ICM (incoming message) cannot be recorded.	When the TAD key is pressed, "MESSAGE FULL" is shown on the LCD display.	There is only enough TAD memory to record a message of 30 seconds. Delete unnecessary messages (ICM, OGM, Memo Message, conversations)
	A power failure.	The TAD function does not work during a power failure. Wait until the power comes back on.

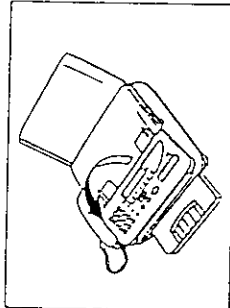
TAD Remote Problems

Problem	Cause	Solution
The TAD Remote is inoperable from an outside telephone.	The TAD Remote is attempted using a telephone with no DTMF signal.	Perform the TAD Remote operation using a telephone with the DTMF signal available.
	The Remote code is incorrect.	Enter the correct Remote code.
	The Remote code is not entered.	Enter the Remote code.

Clearing a Document Jam

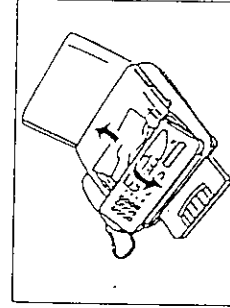
When the "DOCUMENT JAM" error message appears on the LCD display, do the following:

1 Lift the operator control panel.



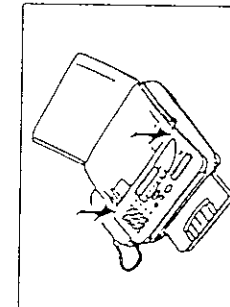
Lift the operator control panel as shown above.

2 Remove the jammed document.



Remove the jammed document while holding the operator control panel. Check for staples, paper clips, or other material blocking the scanner area.

3 Close the operator control panel.



Press down firmly on both sides of the operator control panel to lock it into place. Make sure that both sides of the operator control panel are securely latched.

4 Clear the error message.

Clear the DOCUMENT JAM message from the LCD display by pressing the STOP key.



IMPORTANT:
If a document has jammed, do not try to send it again. Make a photocopy of the document, and send that instead.

Clearing a Recording Paper Jam

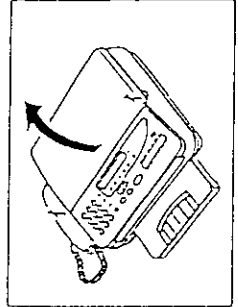
If the recording paper jams while making copies or receiving a document, follow the steps at the right.

IMPORTANT:

- Do not turn the power off.
 - If the power is turned off, documents received by substitute reception will be lost. If such documents are lost, replace the recording paper, and then output the communication journal and contact the transmitting party.
- DO NOT REMOVE THE RECORDING PAPER CASSETTE.**

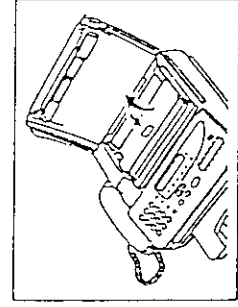
It will damage the unit and make it difficult to remove jammed paper.

1 Open the top cover



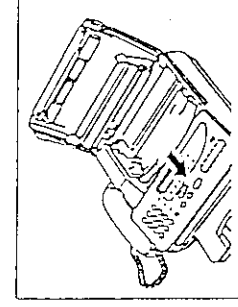
Keep the power ON. Pull up on the top cover tabs and open the top cover.

2 Open the ink film cover



Pull the film transport release tabs forward you, and open the open unit. Lift the ink film cassette from the unit.

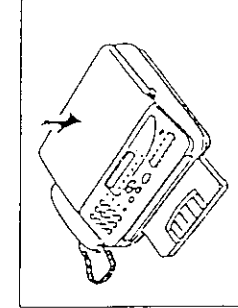
3 Remove the jammed paper



Gently pull the paper release panel open slightly, carefully remove any jammed paper from the unit.

NOTE:
DO NOT REMOVE THE RECORDING PAPER CASSETTE.

4 Close the covers



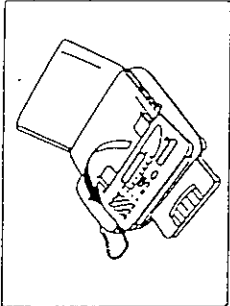
Reinstall the ink film cassette, latch the film transport and close top cover tightly. If a memory reception document remains, it is output automatically.

Cleaning the Document Scanner

If the document scanner is getting dirty, the documents sent to the remote party will not be clear.

You can tell whether the document scanner is dirty or not by making a copy and then comparing the copy with the original.

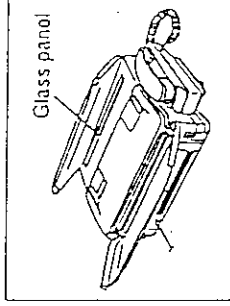
1 Lift the operator control panel.



Turn off the power, pull up the release button, and lift the operator control panel.

NOTE:
Before turning the power off, print out any document received by substitute reception, if stored.

2 Clean the glass panel.

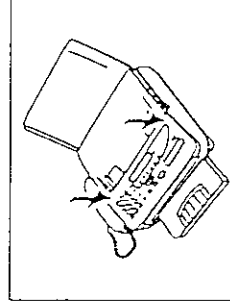


Wipe the glass panel with a soft dry cloth.

If your document scanner is very dirty, first clean it with a slightly moist cloth, and then wipe with a dry cloth.

IMPORTANT:
Do not use abrasive materials which could scratch the glass surface. The document scanner contains glass, so handle it carefully.

3 Close the operator control panel.



Press down firmly on both sides of the operator control panel to lock it into place.

Make sure that both sides of the operator control panel are securely latched.

Turn on the power.

SPECIFICATIONS

Unit Dimensions:

Width : 347.5 mm (13.7 inches) Except handset
Depth : 397.5 mm (15.6 inches)
Height : 146.5 mm (5.8 inches)

Unit Weight:

Approximately 7 kg (15.4 lbs) not including recording paper.

Power Requirements:

120 VAC, 60 Hz

Recording Paper:

Width: 215.9 mm (8.5 inches)
Length: 279.4 mm (11 inches)

Document Size:

Width: 147 to 216 mm (5.8 to 8.5 inches)
Length: 100 to 1000 mm (3.9 to 39.37 inches)

NOTE:

Manual assistance is needed to feed documents longer than 279 mm (11 inches).

Document Feeder Capacity:

20 pages

Effective Printing Width:

215 mm (8.46 inches)

Effective Scanning Width:

215 mm (8.46 inches)

Scanning Density:

Horizontal: 8 dots/mm (203 dpi)
Vertical: 3.85 lines/mm (97.8 lines/inch)
7.7 lines/mm (196 lines/inch)
15.4 lines/mm (391 lines/inch)

Compatibility:

Special EX/HS (TOSHIBA compatible), ITU/CCITT ECM/G3

Transmission Rate:

9600/7200/4800/2400 BPS

Encoding Systems:

MMR/MR/MH

Printing Method:

Thermal transfer printing

Environmental Conditions:

Temperature: 41°F to 95°F [5°C to 35°C]
Humidity: 40% to 85% relative humidity

Back-up Memory Battery Life:

If the power is turned off for a total of approximately five years, the back-up memory battery will be exhausted.
(User programming memory only)

LIST OF ERROR CODES

User code	Description	How to Correct	See Page
10	Paper Empty	Install the recording paper	8
11	Paper Jam	Clear the recording paper jam. Press the STOP key.	95
12	Document Jam	Clear jammed paper. Press the STOP key.	94
13	Cover Open	Close the top cover. Press the STOP key.	
16	Ink Film Empty	Install a new ink film.	10
20	Power Failure	Press the STOP key.	
25	TPH (Thermal print head) Overheat	Wait for the thermal print head to cool.	
30	The STOP key is depressed.		
31	No Answer to call Request	Make a direct phone call to remote operator.	45
33	Polling Error	Check polling options set-up.	72
50	Auto Dial Error (Line Busy)	Send the document again.	38,39,40
53	Security Mismatch	Match your security code with remote party's.	72
80	Tel Line Error		
80	No MCF/EOM		
82	Training Error		
83	Pix Error	Call the remote party to check if their unit is OK. Possible poor phone line. Retry transaction.	35
84	Line Error		
85	No EOL		
86	Pix Error		

S

Speakerphone(On-hook dialing) 50
START key 4
STD 32
STOP key 4
Substitute reception 80
Substitute transmission 41

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Toll Saver 70
Top cover 3
Top cover open Tabs 3
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Transmission report 84
TTI position 65
TX Report 66
TX REPORT/CALL key 4

U

Unit dimensions 97
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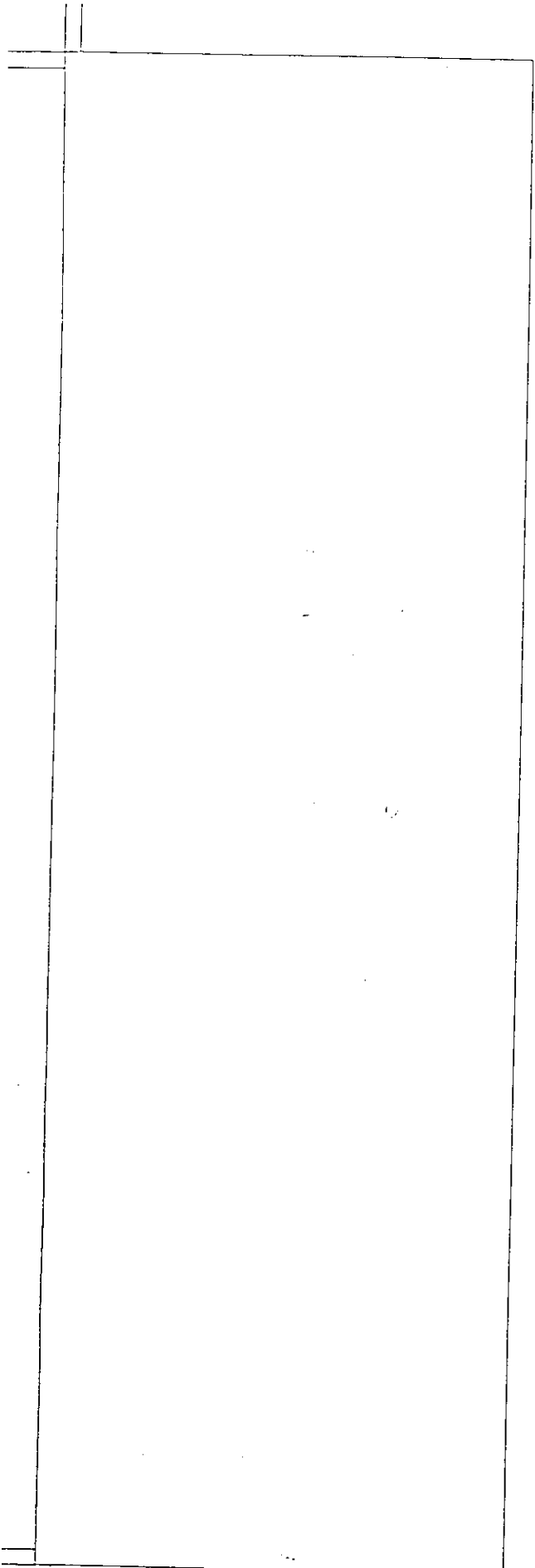
V

Volume Keys 4

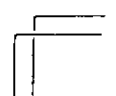
FAX

TELE

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FILE NO. E1-26319



TF471EUE000196



TF471

EXHIBIT B

"Description of Circuit Functions"

(FCC Ref. 2.1033(b)(4))

EXHIBIT B

Facsimile Transceiver, Model TF 471

PRODUCT SPECIFICATIONS

FCC ID: BJIOH-98002
Marstech Report No. 98287D
EXHIBIT B(1)

ISSUE 1

1	<i>TF 471</i>	<i>(June 6, 1998)</i> <i>Issue 2</i>
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*Facsimile Transceiver with the Printing System,
Model TF 471 with Serial Interface*

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1. GENERAL

AF4 is a facsimile machine with A4 scanning and A4 Printing which have various sophisticated functions such as the Error Correcting Mode (ECM), High Speed (HS) transmission mode, Memory Transmission, Communication Journal, Automatic Dialing Function, High Quality Copy (64 levels), Plain Paper ("Hammermill" paper can be used), Semi-Quick Scanning, PC Interface (Image Vision Lite), Distinctive Ringing Function, and Directry Dialing Function.

The recording method is a thermal transfer printing.

1.1 Basic Functions

- (1) Applicable Circuit : PSTN or behind PABX
- (2) Mode of Operation : Half-duplex
- (3) Document size : Letter
- (4) Automatic Document Feeder : Letter 20 sheets
- (5) Recording Paper : Plain paper (Letter only)
: Ink Film
: 220 mm x 100 m Roll (0.5" core)
- (6) Communication Mode : ITU-T ECM/G3
: HS (Special High Speed-16 lines)
- (7) Coding Scheme : MMR / MR / MH
- (8) Modem Speed : 9600/7200/4800/2400 bps
- (9) Automatic dialer : DP / MF (Selectable)
- (10) Environmental Condition : See Fig. 2.8.1
- (11) Power Supply : 120VAC 60 Hz
- (12) Other Facsimile Features : Communication Journal (40Tx+40Rx)
: Terminal Identification (TSI/CSI)
: Abbreviated Dialing (50)
: (without one touch dialing)
: One touch Dialing (11)
: Automatic / Manual Redial
: Full Number Dial
: Chain Dialing (128 figures)
: Directry Dialing
: Index Dialing
: PIX Memory (512 kbytes)
: Self-diagnosis
: Remote Configuration / Diagnosis
: Operator Call
: Customer Info. Line (TTI)
: 4800 bps Setting
: Multi-Language (4 Languages)
: Auto and Manual Contrast Control
: LCD

Test Mode
ID Name (20 characters max.)
Tel. Number (38 digits max.)
TEL/FAX Switch with OGM
Transmission Result Display
(When NG)
Ring Delay
Rx without Ringing
Polling (Tx / Rx)
Delayed Transmission
Single Memory Transmission
Multi-address Transmission
Security Reception
(Matching Tel. Nbr)
Remote Receive
Substituted Reception
Language Selection
High Quality Copy
Local Copy (Single/Multi, the number
of copies:Max. 10)
Gray Scale (the error diffusion
method, 64-level) (*Tentative*)
Distinctive Ringing
Caller ID Indication
PC Interface
On-hook Dialing
Hold (w/wo Melody)
Last Number Redial
Flash
Power Off Dialing

(13) Telephone Features

2. TECHNICAL PARAMETERS

2.1 Scanner

- (1) Scanning method
CCD image sensor and step feeding using pulse motor.
- (2) Density
 - Horizontal : 8 pels/mm
 - Vertical : 3.85 l/mm, 7.7 l/mm, 15.4 l/mm
- (3) Scanning width
 - A4 : 215 mm \pm 1%
- (4) Scanning Period
 - 15.4 l/mm : 5 ms/line
 - 7.7 l/mm : 10 ms/line
 - 3.85 l/mm : 5 or 10 ms/line (5ms : scan into memory only)
- (5) Document size
 - a) Single Page
 - i) Width : 148 - 216 mm
Carrier sheet must be used for documents less than 148 mm.
 - ii) Length : 100 - 1000 mm
Hand assistance is required for documents longer than 297 mm.
Can be selected document length free.
 - iii) Weight : 45 - 200 g/m² (0.05-0.25mm)
 - b) Multi-page
 - Width : 148 - 216 mm
 - Length : 100 - 297 mm
 - Weight : 50 - 80 g/m² (0.06 - 0.12 mm)

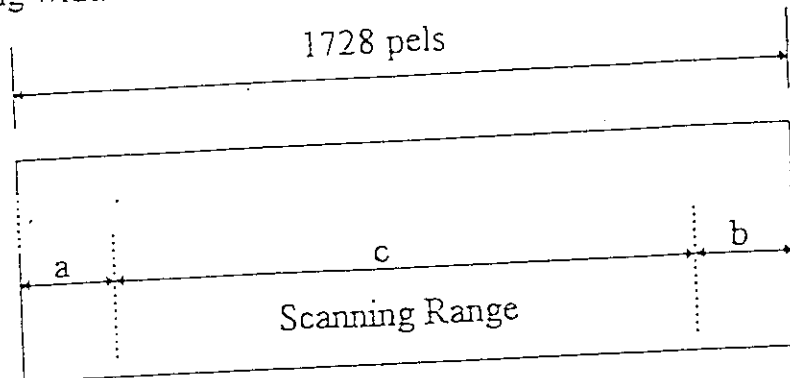
(6) Scanning Position

Position is detected against document feeding direction by photo-interrupter.

Document top : 2 mm \pm 3 mm (0.079 \pm 0.118 in.)

Document end : 0 mm \pm 3 mm (0 \pm 0.118 in.)

The scanning width in the Transmitting mode is as follows.



The effective scanning width is different from the above (more than 205 mm (8 in.)).

	a	b	c
HS/G3 mode	Within 24 pels	Within 24 pels	More than 1680 pels
Copy mode	Within 24 pels	Within 24 pels	More than 1680 pels

(7) Contrast Control

Contrast can be set at 3 levels (normal, dark and light).

Moreover, fine adjustment at 5 levels can be made by service technician.

a) Standard Adjustment :

Contrast is adjusted using the I.I.E.E.J* No. 2 test chart.

The contrast pattern 3 occupies more than 70% and the contrast pattern 5 occupies less than 70%.

b) Gray scale : Error Diffusion type threshold is applied.

7 or more levels (using gray scale pattern 15 of I.I.E.E.J* No. 1 test chart)

* The Institute of Image Electronics Engineers of Japan

- (8) Automatic document feeder
Maximum Letter : 20 sheets
- (9) Skewing
Mechanical : ± 3 mm (max.) for Letter size document
- (10) Gray scale
Error Diffusion type threshold is applied.

2.2 Printer

(1) Printing method

The flatbed printing using the thermal transfer manner, and the step feeding using pulse motor.

(2) Density

Horizontal : 8 pels/mm
Vertical : 3.85 l/mm, 7.7 l/mm, 15.4 l/mm

(3) Printing width

A4 : 215 mm \pm 1%

(4) Recording paper size

Letter : 216 mm x 279 mm

a) Number of Sheets : 160 sheets

Note : thickness is required to be less than 0.12 mm.

b) Ink Film : 220 mm x 100 m roll of 0.5 inches

c) Recording Paper Tray : Letter

(5) Printing density and uniformity (Fine mode, 25°C(77°F))

Density : greater than 1.0 O.D.

Uniformity : less than 0.3 O.D.

(6) Printing Period

3.85line/mm (nominal) : 20 msec./line

7.7 line/mm (nominal) : 10 msec./line

15.4 line/mm (nominal) : 5 msec./line

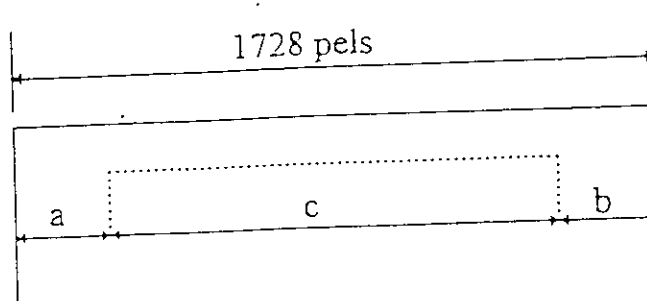
- (7) Effective Recording Range
Recording paper feeding direction;

Plain paper

Top non-recording area: max. 6mm

End non-recording area: $1 \text{ mm} \pm 1 \text{ mm}$

Recording area in the Transmit mode is as follows:



	a	b	c
HS/G3 mode	Within 44 pels	Within 44 pels	More than 1640 pels
Copy mode	Within 44 pels	Within 44 pels	More than 1640 pels

- (8) Maximum Continuous Recording Pages

The maximum number of continuous recording pages is at least 15 (or 20) in the copy mode. In case of "All Mark" recording, it becomes up to 30 mm length size. For continuous printing of more page(s), recording quality will be deteriorated, or recording will be stopped due to overheating of the TPH, but faulty operation or breakage of the machine will not occur. Reference : Documents analogous to All Mark sheet.

a) ITU-T No.8150 mm (WELL. WE ASKED FOR IT !)

b) I.I.E.E.J. No.3 45 mm (FACSIMILE)

- (9) Paper length Indication

In case of the Letter size, it can be detected with paper length sensor.

(10) Paper Empty Indication

The paper empty can be detected using the sensor.

If the paper empty will be detected, the machine will enter the memory substituted reception from the page in which the paper empty was detected.

(11) NOTE : The machine always use the PIX buffer memory to receive the document from the remote party. The capacity of the PIX memory for the substituted reception varies depending on the capacity of the PIX buffer memory used. This is the reason why the capability of the substituted reception is not always constant.

(12) Paper Jam Indication

The paper jamming can be detected using the sensor.

If the paper jamming will be detected, the machine will enter the memory substituted reception from the page in which the paper jamming was detected.

(13) NOTE : The machine always use the PIX buffer memory to receive the document from the remote party. The capacity of the PIX memory for the substituted reception varies depending on the capacity of the PIX buffer memory used. This is the reason why the capability of the substituted reception is not always constant.

(14) Ink Film Empty Indication

The ink film empty can be detected using the sensor.

If the ink film empty will be detected, the machine will enter the memory substituted reception from the page in which the ink film empty was detected.

(15) NOTE : The machine always use the PIX buffer memory to receive the document from the remote party. The capacity of the PIX memory for the substituted reception varies depending on the capacity of the PIX buffer memory used. This is the reason why the capability of the substituted reception is not always constant.

(16) Vertical Reduction

Depending on the length of the received page, the vertical reduction or the split printing will be performed.

A parameter called "SPLIT PARAMETER" is used to a vertical reduction printing and a split printing.

The vertical mode or the split mode is selected by a function setting in a menu.

a) Function Setting

It is possible to set the vertical reduction mode to ON or OFF by the user operation. (Initial unit setting is ON)

If this function is set to OFF, the split printing mode is selected.

b) Rules

The relationship between the length of the document that is being received and the recording paper size is as follows.

i) When the document that is being received is shorter than the recording paper, or when it is of the same length, the document is printed as the recording paper.

ii) When the document that is being received is longer than the recording paper, the document is printed as follows :

a) When the difference in length of the document and the recording paper is within a split parameter, the document is printed as is on the recording paper.

The lower part of the document that is being received will be cut off without being printed.

b) When the difference in length of the document and the recording paper exceeds the split parameter, the reduction mode or the split mode is selected according to the function setting.

iii) RX Reduction setting is ON.

The document will be automatically reduced in size.

The reduction ratio is as follows :

75%, 80%, 83%, 86%, 90%, 95%

For instance, 95% as the reduction ratio is selected, a single vertical line of the received data will be thinned out every 20 vertical lines.

Note : When reduction the document by 75% and it still does not be performed, but the document will be divided and then printed out.

iv) Rx reduction setting is OFF.

The document will be divided and then printed out.

Note : When the printed document is split, the printer duplicates the head of the following paper and the beginning of the preceding one.

The length is 5 mm.(approx. 1.97 inch)

c) Split Parameter

The following parameter will be available.

0 mm (mode1)

11 mm (mode2)

18 mm (mode3)

34 mm (mode4)

The split parameter can be programmed by a service technician.

d) Reduction Table

The followings are the reduction table which shows the relationships between the received document size and the recording sheet.

"O" means both of reduction and split are not used.

"R" means reduction is used.

"S" means split is used.

Internal Service Setting	Reduction User Setting	Original			Condition
		LETTER	A4	LEGAL	
0	ON	R	R	R	
	OFF	S	S	S	
1	ON	O	R	R	For TTI Inside
	OFF	O	S	S	
0	ON	O	R	R	For TTI Outside
	OFF	O	S	S	
1	ON	O	O	R	
	OFF	O	O	S	

(1) TPH Overheating

If an abnormal heat is detected due to the continuous printing or malfunction by the temperature sensor, the machine stop printing until the TPH temperature drops below the threshold temperature.

If the machine detects that the TPH temperature drops below the threshold temperature, the machine returns to the standby mode.

Note : If the temperature does not drop after detecting the TPH overheating, it is required to turn the AC power off/on for the hardware reset.

2.3 Modem

(1) Modulation method

Group 3/HS : ITU-T V.29, V.27 ter
Binary signal : ITU-T V.21, T.30
Tonal signal : ITU-T T.30

2.4 Coding/Decoding (CODEC)

- (1) MH : ITU-T T.4
- (2) MR : ITU-T T.4
- (3) MMR : ITU-T T.4 (NO EOL, NO filler, k=non-limited)
- (4) HS : Toshiba Special High Speed mode 16 line
dummy control MR (filler control)

2.5 Telephone

Telephone set (One Piece Phone) is attached to the machine.

You can dial by using either ten keys of the handset or the ten keys of the operation panel.

When AC power supply breaks down, Telephone Communication, Dialing function (using ten keys of the handset) and calling tone can be used.

This telephone is hearing aid compatible.

(1) Function

- a) MF/DP (10 pps) selective (Touch Tone accompanies)
- b) On hook Dial (Monitor volume adjustable)
- c) Calling Tone Adjustment (Loud, Small, No Sound)
- d) Hold (Hold Tone: Gavotte en Rondeau (J.S.Bach))
- e) One-Touch Dial
- f) Redial (up to 38 digits; pauses including power)
- g) Abbreviated-Number Dial

(2) Speech quality

a) Transmit objective loudness rating (TOLR)

Loop (kft)	Lower Limit (dB)	Upper Limit (dB)
0	-38	-59
9	-34	-53
5	-32	-49

b) Receive objective loudness rating (ROLR)

Loop (kft)	Lower Limit (dB)	Upper Limit (dB)
0	+55	+38
9	+57	+40
5	+58	+43

c) Sidetone objective loudness rating (SOLR)

Loop (kft)	Upper Limit (dB)
0	0
9	0
5	-3

Note : Method of measurement is according to IEEE Standard 661-1979

(3) Telephone Calling Tone

a) Frequency

Mixture of 444 Hz, 555 Hz and 7.9 Hz (approx.)

b) Component

Tone Ringer

c) Volume adjustment

3 levels (loud, normal and no sound)

d) Sound pressure level

Minimum 65 dB [SPL]

Test condition : Volume adjustment is loud.

Half meter in front of the machine.

2.6 Line Interface

See Appendix B.

2.7 Operating Panel

(1) Panel Layout

Shown in Fig. 2.7.1.

(2) Liquid Crystal Display (LCD)

a) Number of characters

20 characters x 1 row

b) Letters

Alphanumerics, numerals, symbols

c) Letter size

7 x 5 dots

d) Contrast adjustment

Fixed

Operator control panel

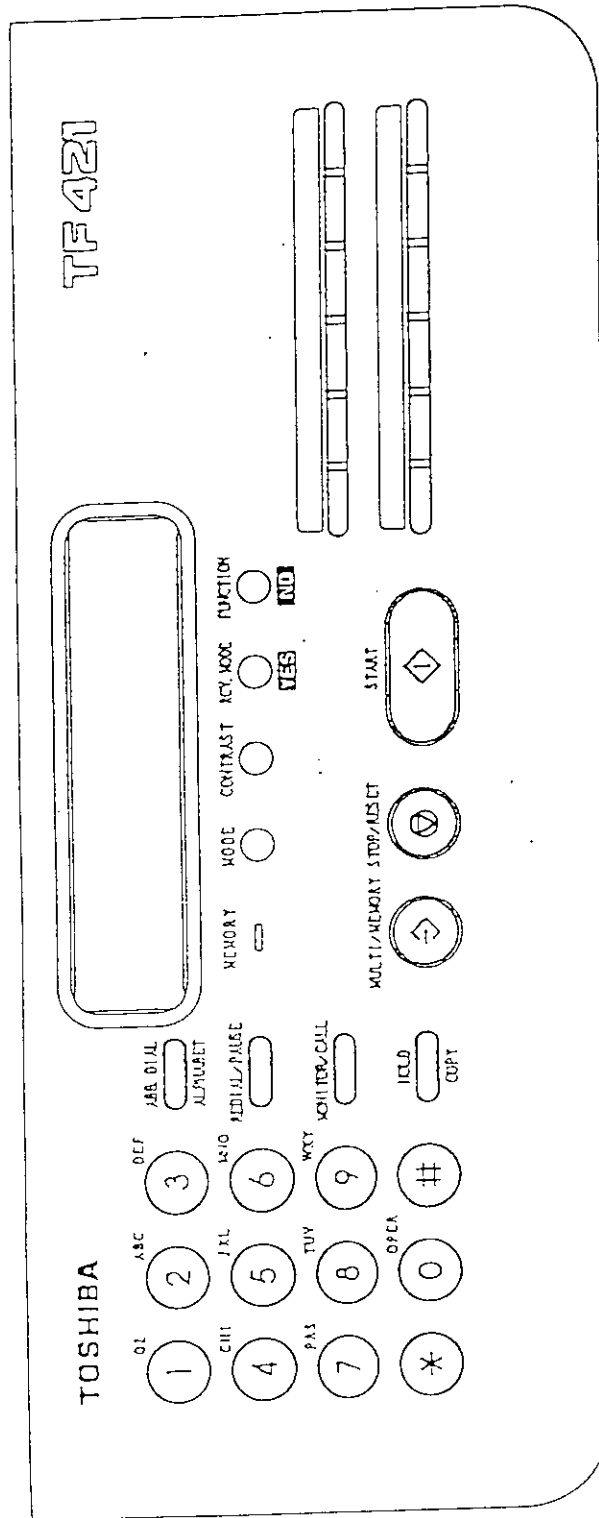


Fig. 2.7.1

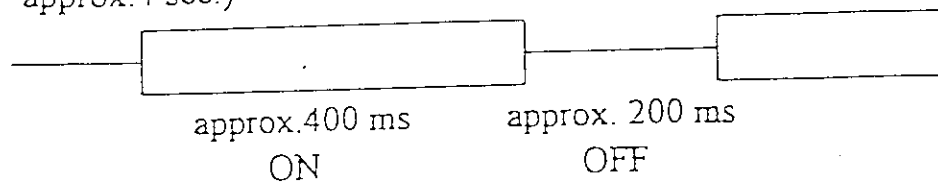
- (1) LCD display
This display indicates the current condition when your machine is used.
- (2) Dialing key pad
Used when dialing, registering numbers, or changing settings.
- (3) One-touch dialing keys
You can send documents or make calls simply by pressing a single key.
These keys can also be used when receive to initiate remote polling calls.
- (4) HOLD/COPY key
Used to put the other party on hold during a conversation.
Also used to release the hold status and to bring the waiting party back on line.
This key is also used to start copying.
- (5) REDIAL/PAUSE key
Used to redial the last number dialed.
This key is also used when a pause is needed while a call is connected to an outside line.
- (6) FLASH key
Used to disconnect a call without hanging up. And used to generate a switch hook flash when used behind a PBX or Centers System.
- (7) MONITOR/CALL key
Allows you to dial numbers without lifting the handset. Also used to switch over to the voice mode after sending or receiving a document.
- (8) FUNCTION/NO key
 - Allows you to set various functions.
 - No responses to display prompts.
- (9) ABB.DIAL/ALPHABET key
Allows you to make calls and send documents using abbreviated dialing numbers.
This key is also used for alphabet dialing.
- (10) RCV.MODE/YES key
 - Used to switch between TEL mode and FAX mode.
 - Yes responses to display prompts.
- (11) MODE key
When sending a document or making a copy, this key is used to adjust the resolution according to the size of the letter on the document.

- (12) CONTRAST key
When sending a document or making a copy, this key is used to adjust the contrast (Light/Normal/Dark) of documents. When you select light position for light letters, the machine emphasizes these letters.
- (13) STOP/RESET key
Used to stop the machine in the middle of an operation or to clear an error display.
- (14) START key
Used to start sending or receiving a document.
This key is also used to start scanning document to PC or printing it from PC.
- (15) MULTI/MEMORY key
When using the multi address transmission or the multi address polling, this key is used before inputting multi address.
- (16) Memory LED
When the picture memory is used, this LED lights.
The light color is green.

2.8 Sound

A sound is emitted at approx. 1 kHz freq. the built-in speaker in the following cases :

- (1) When the operator touches the keys on the panel (approx. 0.2 second ; operating error approx. 2 seconds).
- (2) When transmission is completed (approx. 1 second continuous).
- (3) When an error condition occurs (continue the following pattern during approx.4 sec.)



No alarm for Auto Receive mode.

- (4) When the remote operator presses the CALL key (ON: approx. 1 second, OFF: approx. 1 seconds intermittent)
- (that is, when operator call is made). (Approx. 15 seconds when calling is preset; released by off-hook.)
- (5) Sound pressure level
Maximum : 65 dB [SPL]
Minimum : 35 dB [SPL]
Test condition : At a half meter in front of the machine.

2.10 Environment

(1) Ambient temperature

- a) Operating : See Fig. 2.8.1
- b) Storage : -25 - +70°C (-13 - +158°F)
(except for consumable items)

(2) Relative humidity

- a) Operating : See Fig. 2.8.1
- b) Storage : 20 - 95% (35°C(95°F))
20 - 36% (55°C(131°F))
(except for consumable items)

2.11 Safety

Conformity to the UL 1950

CSA C22.2 No. 220

Material of outside cover is of UL94 V0 quality or equivalence.

2.12 RFI

Conformity to the FCC Part 15 Class B

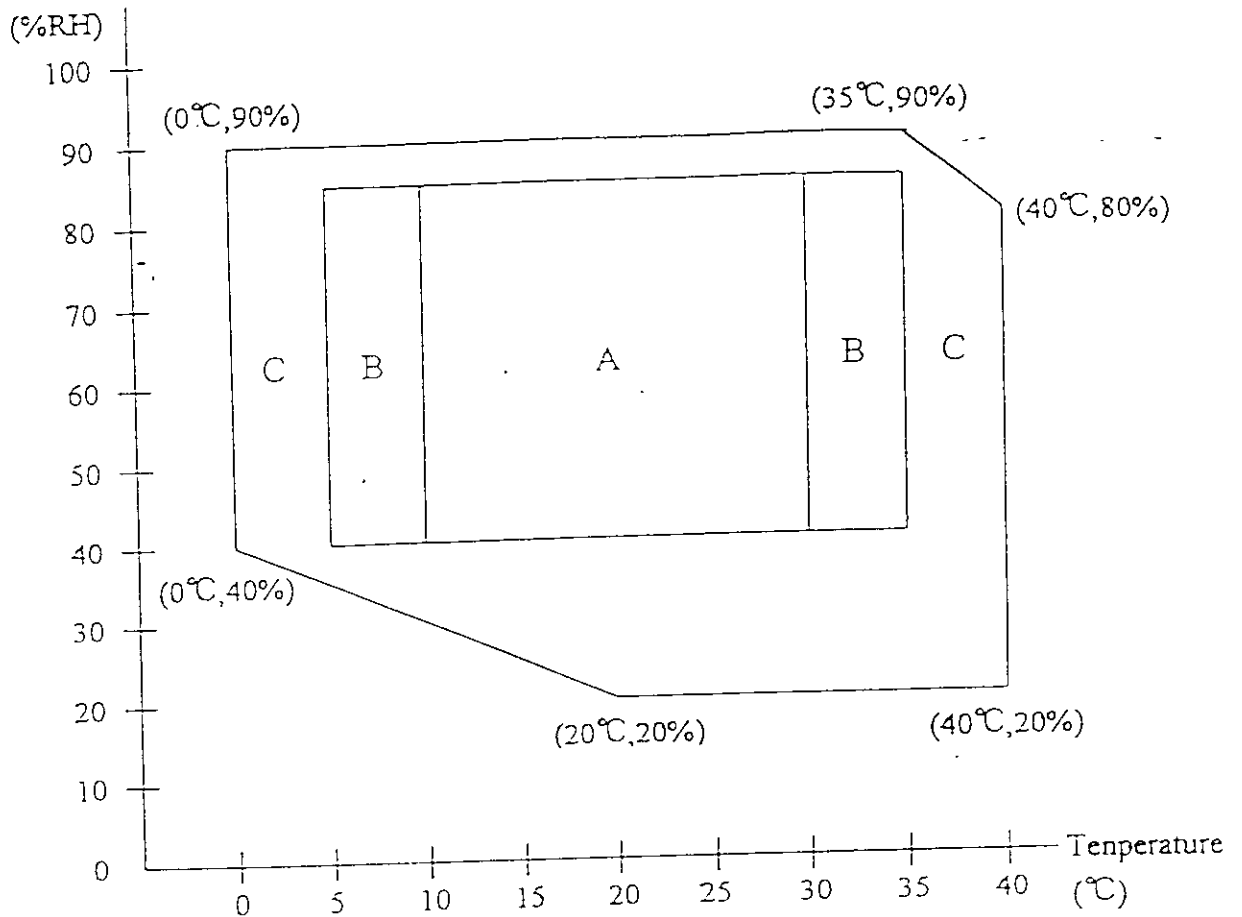


Fig. 2.8.1

Area A : 10 - 30°C, 40 - 85%

The machine meets the specification under 50% duty operation up to 30 minutes. (except for copy)

Area B : 5 - 35°C, 40 - 85%

The machine meets the specification under 30% duty operation up to 30 minutes. (except for copy)

Area C :

The machine is not damaged under 20% duty operation up to 30 minutes, but does not necessarily meet the specification.

Condition

Black portion of the test document is less than 20% in average. All black area of document less than 100 mm length size may be used. (limited to single sheet)

2.13 Mechanical Performance

(1) Physical Dimension

Width : approx. 397.5 mm
Depth : approx. 347.5 mm
Height : approx. 146.5 mm
(without telephone)

(2) Weight

Approximately (6.5) kg

(3) Vibration Test

5 - 44.6 Hz : Max. displacement 0.25 mm
44.6 - 150 Hz : 2.0 G
Sweep : 1 oct./min.
Duration : 30 min., 3 dimensional

(4) Test of Packaging

One 50 cm face drop on each face (6 faces)
No water spray test.

(5) Acoustic Noise

Maximum : 50 dB (A)
Test condition : One meter in front of the machine transmitting or receiving ITU-T No. 1 test chart.
Audible alarm and the other instantaneous sound generated by the machine will be excluded.

(6) Shock (unpackaged)

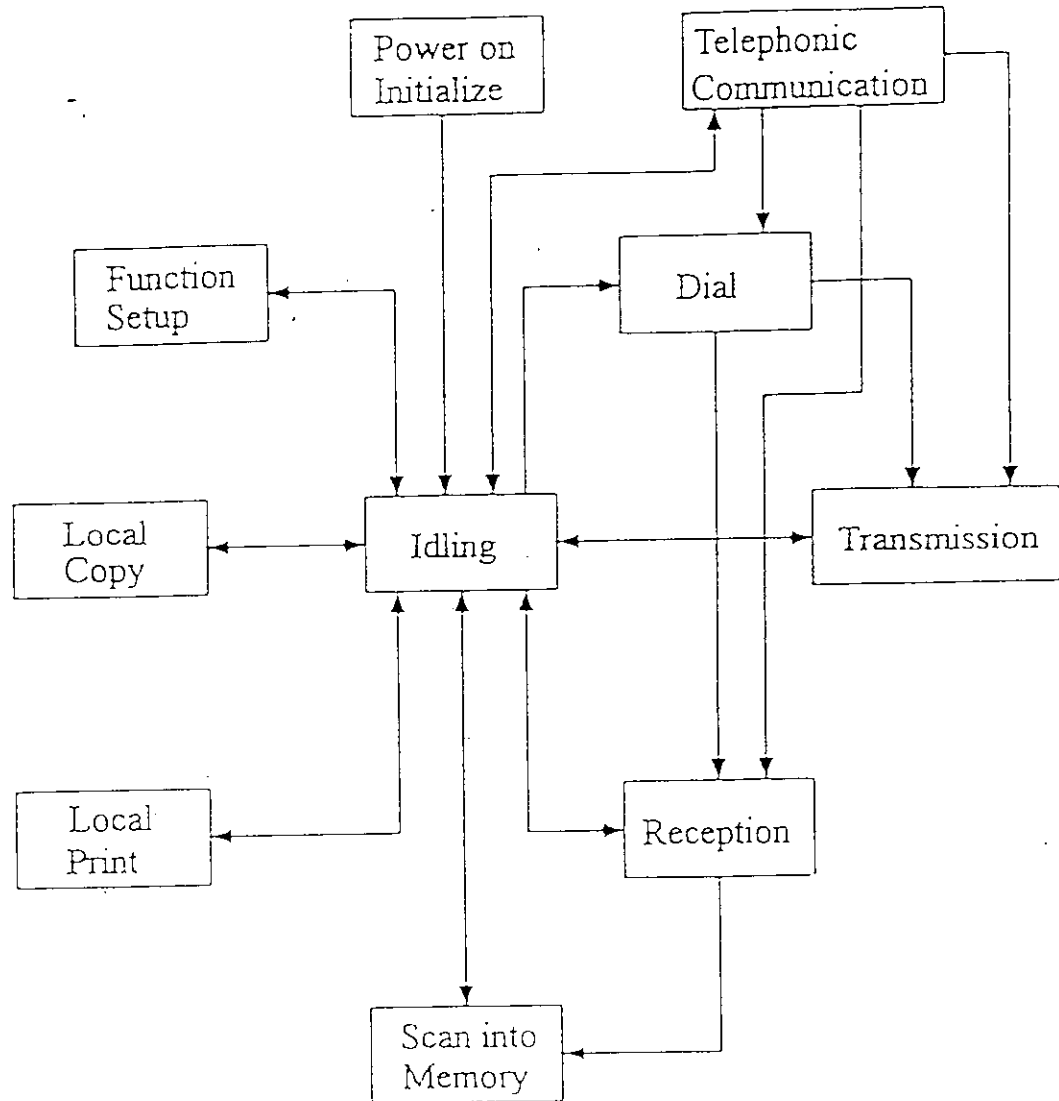
Drop from 100 mm high at 4 edges adjacent to the bottom face.

This page is left blank intentionally.

3. OPERATIONS

3.1 General

There are several status of operations as described below.



(1) Common Rules

- a) Whenever any key is depressed, a short audible tone sound.
- b) If no key is depressed within 60 seconds in an operation sequence, the operation will be canceled and the machine will revert to the idle state except for the on-hook/off-hook dialing operation and the holding operation.

3.2 Power-on Initialize

When the machine is powered on, the system checks the following items and returns to the idle state after displaying "PLEASE WAIT" and owners of the copyrights on the LCD for approximately two seconds.

(1) B-RAM Check

B-RAM is a certain area of the RAM in which system configuration parameters are stored. The B-RAM is battery backed up and therefore the stored data is kept even in a power-off condition. If the stored data is erased (due to the battery running out), the LCD will show ;

[MEMORY ERASED]

In this condition, the machine will accept no operation except for the depression of the RESET key. When the RESET key is depressed, the machine fills the system area with the default data and then goes to the next step.

(2) Job Check

If the power failure occurs during a job execution, such as a transmission or a reception, and then the power comes back, the machine must reset the pending job.

The machine will show the following message.

[POWER FAILURE]

a) Journal

If the interrupted job is a transmission or a reception, it will be stored in the journal as an unsuccessful transaction. (duration = 00:00)

b) Paper

If documents are set in the scanner, they are all fed out.

If the recording paper is in the printer, it will be fed out automatically.

(This will occur only when the power failure during printing.)

c) PIX Memory

Picture data in the PIX memory is erased by the power-off.

If the picture data for the transmission is erased, the job related to the picture data will be canceled and the machine will print out the CANCEL LIST, which indicates the memory transmission or the polling is canceled. (Whether printing out the CANCEL LIST or not can be selected by an operator.)

In case the received data in the PIX memory (substitute reception) is lost, the machine will show the following error message.

[POWER FAILURE]

3.3 Idling

After the power-on initialize or the execution of a job such as a transmission, the machine returns to the idle state and waits for the next operation.

There are several status, one of which can be selected.

- 1) FAX (Automatic reception)
- 2) TEL (Manual reception)
- 3) TEL/FAX
- 4) TAD/FAX

Default status is as follows ; TEL/FAX

PIX Memory Full

Recording Paper Empty

- 1) —→ 2)
- 3) —→ 2)
- 4) —→ 2)

Note : In this case the mode display will not be changed, but an internal mode will be changed.

3.3.1 Indication

- (1) Generally, except for the case described below, the LCD shows:
for English : [JUN 30 '95 FAX]
for excluded English : [30.06.95 FAX]
- (2) When documents are in the scanner, the LCD shows mode and contrast.
- (3) When the machine is in an error condition, the LCD shown the error message.

List of Error Message;

- | | |
|------------------------|--|
| [DOCUMENT JAM |]: Document Jam |
| [PAPER JAM |]: Recording Paper Jam |
| [PAPER EMPTY |]: Recording Paper Empty |
| [INK FILM EMPTY |]: Ink Film Empty |
| [COMMUNICATION ERROR] | : Unsuccessful Transmission |
| [TPH OVERHEAT |]: TPH Overheat |
| [LINE BUSY |]: Remote Machine Busy |
| [MEMORY OVERFLOW |]: Memory information received is lost. |
| [POWER FAILURE |]: Power Failure |
| [FEATURE UNAVAILABLE |]: Remote terminal does not have
RELAY/MAILBOX function |
| [MEMORY ERASED |]: B-RAMs run out |
| [POLLING ERROR |]: Polling Error |
| [COVER OPEN |]: Cover Open |
| [PIX ERROR |]: No High Speed Signal |

3.3.2 Document Feeding

When documents are set on the document support, the machine feeds them into the scanner unless the document jam exists.

(1) Feeding

The machine starts feeding after 2 seconds since documents are set. This waiting time is intended for an operator to adjust the document guide and correct the document position.

When the machine does not detect the top edge of the document at the scanning position within 15 seconds after starting feeding, "DOCUMENT JAM" will be displayed.

(2) Mode Change

During the document feeding or while documents are set in the scanner, the vertical resolution and the contrast for the document may be changed.

(3) Reset

If the RESET key is depressed during feeding the document or after documents are set in the scanning position, all documents will be fed out. However, the documents reserved for the delayed transmission or the polling will not be fed out and the cancel operation will be displayed.

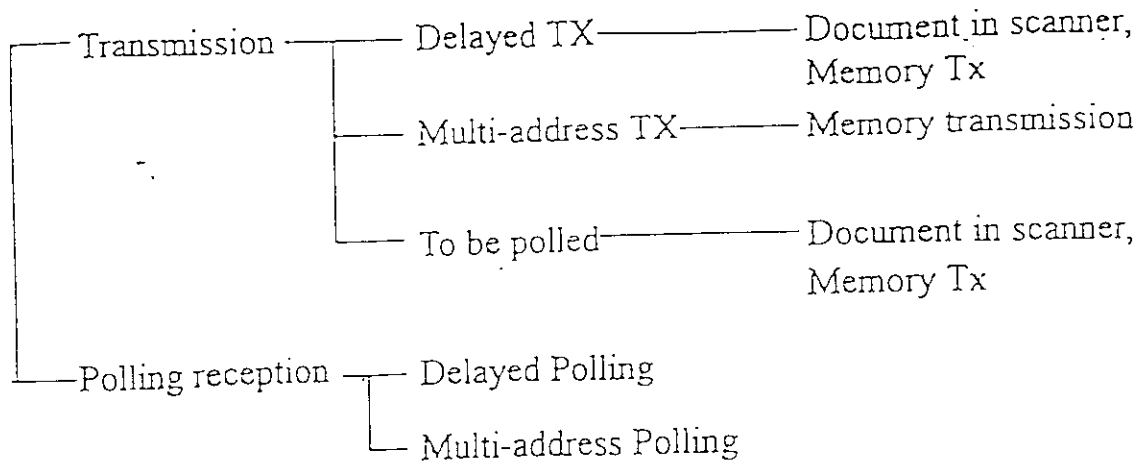
If the RESET key is depressed during a dialing, the dialing will be canceled and the document will remain in the scanner.

3.3.3 Recording Paper Feeding

This function is not provided.

3.3.4 Job Reservation

The following jobs may be reserved as delayed operations.



There are several limitations for the job reservation.

- (1) When the job for the delayed TX or the polling TX using the document support has been reserved, no other jobs which use the document supports are accepted.
- (2) When the job for the Multi-address TX using PIX memory has been reserved, no other jobs which use PIX memory is accepted.
- (3) Only one job in each category (Memory operation, document job, and polling) may be reserved at one time.
- (4) When the machine is in the redialing mode, it is possible to let the other job interrupt. The interrupting job is limited to the single transmission for documents, and the interrupted job (the job in the redialing mode) is limited to the job using the PIX memory (the Multi-address TX and the polling RX).

3.3.5 Language Selection

(1) Prompt

Temporary language selection is possible by the user operation.

When the language menu is selected, The LCD shows;

[ENGLISH ?]

The selected language is valid until another language is selected by this operation. Four languages, English, French, Spanish, and Portuguese are available.

(2) OGM

OGM language can be selected by the user operation.

This operation is separated from Prompt language operation.

3.3.6 Substitute Reception

When there is data in the memory as a result of the substitute reception, the memory LED lights.

After loading the recording paper, the received data is printed out.

The received data is erased page-by-page after printing.

Therefore, even if a trouble such as a paper jam occurs during printing, it is possible to print out this page again.

It is impossible to operate the other functions until all of the received data will be printed out.

If power failure occurs, the LCD shows;

[MEMORY REC.LOST]

The priority order of printing out is as follows;

1. Printing out the data of the substitute reception
2. Printing out the communication report
(No guaranty for the re-output)
3. printing out the journal

All messages received into the memory are marked with "M" in the journal.

3.3.7 Mode

This machine has 4 modes, STD, FINE, SF(Super Fine) and GRAY.
The relation between these modes and resolution is described bellow.

(1) Transmission resolution

STD 8 pels/mm x 3.85 l/mm

FINE 8 pels/mm x 7.7 l/mm

SF 8 pels/mm x 15.4 l/mm (*1)

GRAY 8 pels/mm x 15.4 l/mm (*1)(*2)

(*1) If the opposite terminal doesn't have 15.4l/mm mode, the resolution is changed from 15.4l/mm to 7.7l/mm.

(*2) If documents is sent using memory ,GRAY mode is not available.

(2) Copy resolution

FINE 8 pels/mm x 7.7 l/mm

SF 8 pels/mm x 15.4 l/mm

GRAY 8 pels/mm x 15.4 l/mm

(3) Multi Copy resolution

FINE 8 pels/mm x 7.7 l/mm

SF 8 pels/mm x 15.4 l/mm

GRAY GRAY is not available

3.4 Customer Registration

The customer registration is to store customer information needed for operating the machine beforehand.

3.4.1 Dial Registration

(1) One-touch Dial and Abbreviated Dial

a) Number of Registered Stations

A maximum of 11 one-touch dial stations and a maximum of 50 abbreviated dial stations except one-touch dial stations can be registered.

b) Dial Number

The number of digits for the telephone number that can be registered as an abbreviated dial is 38 maximum, counting pause and flash as one digit.

One-touch numbers are registered the telephone number.

c) Name of Destination Station

The name of a destination station can be set by displaying maximum 20 characters of it on the LCD and by selecting it by MENU operation. (Station name can be omitted.)

(2) Canceling and Modifying

It is possible to cancel or modify the abbreviated dialing settings by operation.

3.4.2 Own Terminal ID Registration

The telephone Number of the terminal ID and other data are registered.

(1) Operation and Set Items

a) ID name

The name of the source station can be set by displaying maximum 20 characters of it on the LCD and by selecting it by the cursor.

b) Telephone Number

Input telephone Numbers (up to 20 digits) by the ten keys and by the PAUSE key. "+" data can be input in the beginning of country code.
(Balance 19 digits remaining)

(2) Modifying

It is possible to modify the ID name and Telephone number by operation.

3.5 Function Settings

3.5.1 Function Settings (User)

When the operation allows it, the following function settings can be made.

- (1) Language Setting
 - a) Four languages of Prompt are implemented as standard.
(English is initial)
 - b) Four OGM languages are implemented.(English is initial)
- (2) Date & Time
- (3) Journal Setting
Setting whether printing out the journal automatically or not when the number of communications reaches the maximum. (ON is initial)
- (4) Transmission Terminal Information (TTI) Insertion
 - a) Setting whether to print TTI inside or outside the document at the receiving FAX machine. (OUTSIDE on initialization)
 - b) Setting to select OFF if TTI is not to be printed on the recording paper at the receiving FAX machine.
- (5) Privilege Reception
If security reception function is set, the machine can receive documents only from the selected terminals which have been registered in 50 ABB Dials and One-Touch dials. (OFF is initial)
- (6) Terminal ID
This is already explained at the 3.4.2 Own Terminal ID Registration.
- (7) Ring Delay
This sets how many times of Ring (0-9 times).
- (8) Security Tx
Setting whether transmission documents with the security or not. (OFF is initial)
- (9) Remote Reception
Setting ON/OFF of Remote Reception.

- (10) TX Report
Setting Tx report and MUlti-Address report
- (11) Redial interval/times
Selection of the redial interval and times
 - a) Interval
1 min. to 15min. are programmed. (1 min. on initialization)
 - b) Times
0 time to 14 times are programmed. (5 times on initialization)
note : The first dialing is not included.
- (12) Dial Type
The dial type (MF, DP) can be set according to the type of line being used.
(MF on initialization)
- (13) TAD setting
 - a) TAD timer
00 sec. to 99 sec. is programmed. (45 sec. is initial.)
 - b) FAX on Tape Full Setting whether or not to switch the FAX reception mode when TAD will not answer during 30 second.
- (14) Flash Time
0.5 sec. or 2 sec. is programmed. (0.5 sec on initialization)
- (15) Distinctive Ringing
Setting ON or OFF of distinctive ringing function.(OFF is initial.)
- (16) RX Reduction
Setting whether using the RX reduction (vertical reduction) or not.
(OFF is initial.)

Confirmation by Function List.

3.5.2 Function Settings (Service technician-use)

The function settings can add or delete various functions.

(1) Setting Conditions

(For details, see the operation flowdiagram.)

a) SET FUNCTION

b) MEMORY WRITE

Any of these two types of operations is available. The SET FUNCTION and MEMORY WRITE can be set only when the machine is in the test mode.

(2) Outline

a) FUNCTION area

This sets various functions (modem baud rate, etc.).

b) UAD area

This area will be used for the setting call origination conditions and states.

The details are shown Appendix F.

(3) Function Settling Confirmation

The function settings can be confirmed by the method below:

Function List for Maintenance (This list can be printed out in the Test mode only.)

Format

See Appendix A.

3.6 Transmission

3.6.1 Initiation

(1) Manual Transmission

The manual transmission will be initiated by depressing the START key while documents are set in the scanner and the telephone is in an off-hook state.

(2) Automatic Transmission

The automatic transmission will start when an initial identification signal(CED/DIS) is detected after the autodialing initiated by the one touch key etc.

(3) Polling Transmission

The polling transmission will start when a valid DTC signal is detected. Polling set-up is described in the OPERATION FLOW.

3.6.2 Indication (LCD)

(1) During Transmission

Described in the OPERATION FLOW

(2) End of Transmission

The transmission result described in the OPERATION FLOW will be displayed.

3.6.3 Transmission Mode Selection

Transmission mode will be determined by the capability of the receiver. The priority order is as follows .

EC → HS → G3

3.6.4 Modem Speed and Fall Back

(1) Modem Speed

- a) Protocol
V.21 (300 bps)
- b) Image Signal
V.29 (9600 bps, 7200 bps)
V.27ter (4800 bps, 2400 bps)
- c) If the modem speed (image signal) is set by the function setting, the machine will operate at the set speed.
- d) When the machine is set to the overseas communication mode, the transmission will start from 4800 bps.

(2) Fall Back

If the line condition is bad and the current modem speed (bps) does not allow the proper data transmission, the modem speed is lowered to make the data transmission easier. The conditions for fall back are:

- a) When the receiving side has a training error during the initial training.
(FTT reception)
- b) When the transmission side received RTN or PIN signal. Fall back does not occur in RTP or PIP reception.

The fall back sequence except RTN reception is as follows:

9600 bps → 7200 bps → 4800 bps → 4800 bps → 2400 bps → 2400bps

In case of RTN reception :

9600 bps → 7200 bps → 4800 bps → 2400bps

(3) Function Settings

Modem Speed : The speed for the first try can be set.

However, during the reception, it will start at 9600 bps or 4800 bps.

(ie. 7200 bps is not possible for the first.)

3.6.5 Mode Change Between Pages

This feature is not provided.

3.6.6 Ending

- (1) At the end of transmission (before feeding out documents) an audible alarm will sound.
Transmission Successful :1 second
Transmission Unsuccessful :4 seconds(intermittently)
- (2) All documents will be fed out even in case of the communication error after the phase C.
- (3) Transmission Result Display (on LCD)
Transmission Unsuccessful : 4 seconds

3.6.7 Polling Function

The polling function is divided into the polling transmission function to send the preset documents by a call from the other party and the polling reception function to activate the sending side to receive the pre-set documents automatically.

(1) Polling Transmission

The polling transmission can be set by the operation after setting the documents.

(2) Polling Reception

The polling reception will be carried out by the dialing in the on-hook state. The auto redialing will be performed if the called party is busy.

(3) Delayed Polling Reception

This machine has delayed polling function to poll the documents at a specific time. Start time can be set any time from 00:00 to 24:00. While the documents are reserved for delayed polling, it is possible to do any job except job using the transmission document stacker.

(4) Multi-Address Polling Reception

The multiple address can be inputted next to the "MULTI"key. ABB.Dials (max:50 stations), One Touch Dials (max:11 stations) and Ten Key Input Dials (max:5 stations) can be registered. The auto redialing will be performed if the called party is busy.

3.6.8 Operator Call

- (1) Call Reservation on the G3/HS Transmission mode (Call up side)
During a G3 transmission, the CALL key can be depressed to call the opposite party after the transmission is completed.
- a) If the CALL key is depressed during a phase C, the operator call is set up and the LCD will show:
[CALL REQUEST]
- b) At the end of the last page, the call signal (PRI-EOP) is sent to the receiver. When the response (PIP/PIN) is detected, T3 timer will be set, an audible alarm will be generated and the LCD will show:
[CALL]
- c) When the handset is left or RESET key is depressed, the PRI-Q will be sent to the receiver, and the alarm will be stopped, then the machine will switch the line back to the telephone.
Note : In case the RESET key is depressed, the PRI-Q can not be sent.
- d) When the T3 has elapsed without an operator's response, DCN will be sent then the machine will switch the line back to the telephone.
- e) Handling of this communication is 'OK', but the error code '31 31' is memorized regardless of the consequences for the operator call procedures.

3.6.9 Reset

If the RESET key is depressed, a transmission stops immediately. All documents will be fed out. The error code '30 30' will be memorized. However, handling of this communication is "OK."

3.6.10 Document Length

- (1) If the length of a page exceeds an ability of the receiver shown the DIS/DTC signal, the page is divided and sent as two (or more) pages.
(Except the memory TX mode)
- (2) If the length of a page exceeds 1 meter, it is handled as a document jam.
(In case the function setting of document's length check is set to ON)

3.6.11 Specification of the Number or Transmitted Pages

This function is not provided.

3.6.12 Overseas Communication Mode

This function is not provided.

3.6.13 Original High Speed Mode

The machine has a high-speed mode of HS, which is original to Toshiba, and the mode is selected by checking the Toshiba code NSF option command. (Communications with Toshiba models are possible.)

HS Mode (16 Line Batch Filler control) ;

The transmission time is shortened by securing a total scan rate by controlling fillers in batch for 16 lines to meet dispersions in code lengths for each line. Recording time is not needed for all-white lines, and the scan rate is set to 1/2 that during recording. (White lines skipping)

3.6.14 Auto Dialing

(1) Initiation

There are various methods to initiate the auto dialing. The dialing procedure is the same as when no initiation operation is needed.

a) One-touch Dial

When a valid one-touch key (having registered number) is depressed, the LCD shows the registered name (or telephone number) for 2 second and then, the machine starts dialing.

b) Abbreviated Number Dial

Abbreviated number dial may be initiated by depressing the ABB. key and 2 digit number, and then the START key. The operation after that is the same as above.

c) Full Number Dial

Auto-dialing using the full telephone number may be initiated by entering a telephone number (maximum 38 digits) and then depressing the START key.

(2) Dialing Procedure

a) While the dialing signal (DP or MF) is sent to the line, the telephone number is displayed digit by digit on the LCD.

[034561287]

b) After all digits are sent, the machine will wait for the initial signal (CED/DIS) from the receiver.

[034561287]

In this period, the CNG signal will be sent to the line in accordance with CCITT T.30. If the signal is detected within the specified time, the machine goes to the next step (transmission).

c) If, however, no valid signal is detected within the specified time, the machine reverts to the idling and the LCD shows excluding the memory TX and the polling RX:

[WAITING TO REDIAL]

If the REDIAL key is depressed, the machine starts dialing immediately. If the RESET key is depressed, the machine displays the cancel procedure.

In case of the memory TX, Memory LED lights on. The manual redial is prohibited.

- d) Times and interval of the automatic redial can be set by the operation. The setting of the redial times on an initialization is 5 times, and the setting of the redial interval on an initialization is 1 min. (excluding the initial dialing)

3.6.15 Line Monitor

This function is not provided.

3.6.16 Uncompressed Mode (Gray Scale High Speed Mode)

This function is not provided.

3.6.17 Protocol Reduction

This function is not provided.

3.6.18 Delayed Transmission

This machine has Automatic Transmission function to send documents at the specific time to another unit.

- a) The start time can be set any time from 00:00 to 24:00.
This setting is automatically canceled after transmission.
- b) While the documents are reserved on the document stacker for a delayed transmission, it is possible to receive documents from the remote party and to achieve the memory transmission, but the other operations using the document stacker are not available. If you want to send documents while using the document stacker, you need to cancel the delayed transmission job.
- c) When you want to use the memory function or the multi-address function, you need to use the 'MULTI' key after setting the sending time.
- d) The cancel list is not provided.
- e) The reservation list is not provided.

3.6.19 Multi-Address Transmission

This machine has 256kB memory for multi-address transmission.

(1) Rule

- a) One-Touch Dials(max:11 stations), ABB.Dials(max:50 stations) and Ten-Key Input Dials(max:5 stations) can be registered.
- b) If a call or a transaction cannot be completed due to line busy, protocol error or any other faults. It gives up the station temporarily and tries the next terminal without time delay.
- c) After calling every station, the machine tries unsuccessful station again.(up to the redial setting times)
- d) If the opposite terminal sends RTN or RIN due to picture error, their machine sends the page again.

(2) Document Feeding

- a) The machine feeds the documents into the PIX memory before the multi-address operation starts. During feeding, the LCD shows;
[30% USED]
- b) If the memory becomes full during feeding, the whole multi-address operation will be canceled, and the rest of the documents will be fed out. The LCD shows;
[MEMORY OVERFLOW]

(3) Transmission

A transmission is carried out from the PIX memory according to the procedure described in 3.6.

After completing the multi-address operation or trying the every left unsuccessful station the redial setting times, the machine will print out the MULTI-TRANSMISSION REPORT.

The format is shown in Appendix A.

3.6.20 Security TX

When the documents on the scanning position is set Security TX, this documents can be sent if the opposite terminal telephone number corresponds to the dialed number.

(1) Rule

- a) The machine checks TEL number in CSI of the opposite terminal with the dialed TEL number.
- b) If these TEL numbers are different, documents on the scanning position can not be sent to the opposite terminal.
- c) This setting is automatically canceled after the transaction.
- d) This feature is available except manual sending.

3.6.21 ECM Setting

By ECM function, this machine can send documents with least error. But if the line condition is too bad and the documents are not so detailed, ECM causes the transmission time long. So the documents on the scanning position can be set ECM OFF.

(1) Rule

This setting is automatically canceled after the transaction.

3.7 Reception

3.7.1 Initiation

There are three modes of reception, manual reception, auto-reception, and polling reception.

(1) Manual Reception

[+81 3 456 1287]

Manual reception will be initiated by depressing the START switch when no documents are set in the scanner and the telephone is off-hook.

(2) Auto Reception

Auto reception will start when the machine detects incoming ring signal.

(3) Polling Reception

polling reception will start when a valid DIS signal is detected after auto dialing. Simple and security polling is available.

3.7.2 Indication (LCD)

(1) During Reception

a) Phase-B before TSI Detection

[ON LINE]

b) Phase-B after TSI Detection

Content of TSI will be displayed.

[+81 3 456 1287]

c) Phase C and after

[HS FINE]

(2) End of Reception

Display will revert to date/time unless error occurs.

3.7.3 Error Criteria

In case of erroneous line exceeds the limit described below in G3/HS mode, the receiver responds to the transmitter with negative signal (RTN/PIN).

(1) 10%

(2) 5%

10% or 5% may be selected by service mode function setting.

Initial setting is 10%.

3.7.4 Operator Call

- (1) If the CALL key is depressed during phase c, operator call is set up, and the LCD shows.

[CALL REQUEST]

At the end of the last page, the call signal (PIP/PIN) is sent to the transmitter. When the response (PRI-Q) is detected, and audible alarms will sound. The procedure hereafter is the same as operator call from the transmitter.

- a) Calling sound and calling display

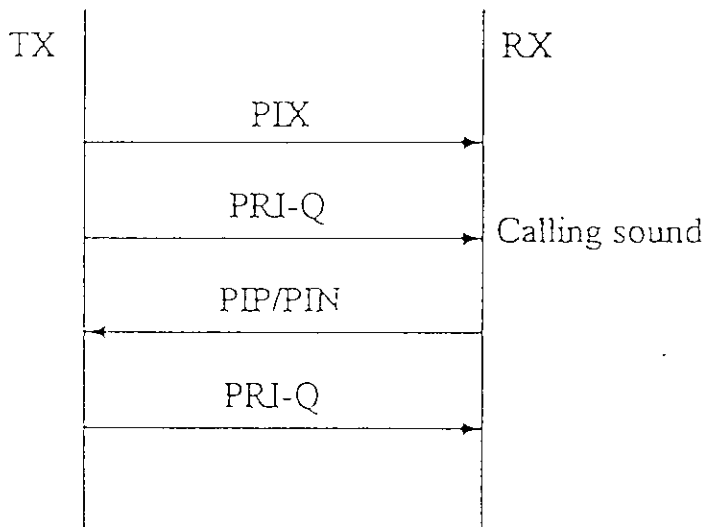
The calling sound will turn on/off at 1.28-second cycles. During the calling sound, the calling display will appear on the LCD.

- b) Notes:

While the calling sound is made, if the hook is off or if the RESET key is pressed, the call will be terminated and the line will be released. (Within 15 seconds after the calling sound begins.)

- (1) Operator Call for the G3 Reception Side (Called Side)

- a) If PRI-Q is received with the post message, the calling sound will be made. A 15-second timer is activated and with hook-off PIP/PIN is sent.



- b) With the hook off and the RESET key pressed, if there is a 15-second time out, the calling sound will stop and the line will be released after PRI-Q is received. After PIP/PIN is sent, receiving a command is not necessary.

3.7.5 Reset

If the RESET key is depressed during reception, the LCD shows:

[ARE YOU SURE?]

If 'YES' is selected, the machine stops reception and disconnects the line. The recording paper is fed out.

3.7.6 Paper Empty Detection

The paper empty sensor detects Paper Empty. After detecting paper empty, the receiving PIX data is entered into the memory up to 448kB (*1) and the memory LED lights. After the memory is filled up, the communication is terminated immediately, the LCD indicates "PAPER EMPTY" and the malfunction alarm sounds.

Substitute Reception is described in 3.3.6.

(*1) In case of no memory Tx

3.7.7 Automatic Reception (FAX mode)

FAX transmission can be received automatically by a telephone call signal from the other party. (Automatic reception)

(1) Operation

The mode to perform automatic reception can be set by the operation.

a) Standard Setting

Automatic reception starts immediately after one or two calling tones (ringers).

b) Bell Time Setting

Operator can set how many times Bell rings before reception (0-9 times).

If operator set '0', the machine starts to receive without ringing.

3.7.8 Security Reception (Privileged Rx)

The machine can receive documents only from selected terminals which have been registered in One Touch Dials (11 terminals) and ABB. Dials (50 terminals).

If security reception function is set, the machine checks TEL number in TSI of the opposite terminal with the TEL number in One Touch Dials and ABB. Dials.

3.7.9 TEL/FAX Automatic Switchover (TEL/FAX mode)

It is possible to select a FAX reception and a telephone call automatically by detecting whether the caller is a telephone call or sending documents. In this mode, the machine can receive fax documents without ringing. And if the caller is a telephone call, this machine starts to ring.

(1) Initiation

- a) After detecting one or two calling signals without ringing, the machine will immediately close the DC loop.
- b) The machine will send the remote terminal OGM1.
- c) During sending OGM1, the machine will check the CNG signal from the remote terminal and send a ring back tone for 6 seconds.
- d) If the CNG is detected for the 6 seconds mentioned above, an automatic reception will start immediately.
- e) If the CNG cannot be detected, the machine will emit a calling sound (9 times), and continue to send the ring back tone (9 times).
- f) If the handset is not picked up for the specified time mentioned above, the machine will send the remote terminal OGM2 and an automatic reception will start immediately.

(2) Function Setting

Set the reception mode to TEL/FAX mode.

It is possible to set the calling time from 0 to 9.

(3) OGM1

a) USA ENGLISH:

IF YOU WISH TO SEND A FAX, PLEASE PRESS THE START KEY.
IF YOU WISH TO SPEAK WITH SOMEONE, PLEASE WAIT.

b) FRENCH:

Si vous souhaitez envoyer un fax, appuyer sur la touche "Depart", Pour une conversation telephonique, merci de patienter.

c) USA SPANISH:

Si desea enviar un fax por favor pulse la tecla START, si desea hablar con alguien espere un momento por favor.

d) PORTUGUESE:

Se deseja enviar um fax, carregue na tecla de START. Se deseja falar, aguarde um momento.

(4) OGM2

a) USA ENGLISH:

NO ONE IS AVAILABLE, PLEASE CALL AGAIN LATER. THIS CALL WILL NOW BE TRANSFERRED TO OUR FAX.

b) FRENCH:

Votre correspondant est absent, veuillez rappeler ultérieurement, Cet appel va maintenant aboutir sur le télécopieur. Merci.

c) USA SPANISH:

En este momento no podemos atenderle. Esta llamada sera enviada a un fax.

d) PORTUGUESE:

Nao se encontra ninguem, por favor ligue mais tarde. Esta chamada sera agora ligada ao fax. Obrigado.

3.7.10 FAX/TAD Automatic Switchover

It is possible to switch a FAX reception and an ICM recording automatically by detecting whether the caller makes a call or tries to send documents.

(1) Initiation

a) After detecting the calling signal from the telephone line, the machine will check whether the answering machine will close the DC loop or not.

If the answering machine can not closed the DC loop during 30 seconds, the FAX machine will close the DC loop immediately then an automatic reception will start.

b) If the answering machine closed the DC loop within 30 seconds mentioned above, the switching time (TAD timer) will be set up and the FAX machine will check the CNG signal from the remote terminal. During this period, the answering machine is sending the caller an Out Going Message (OGM).

c) If the CNG is detected while the answering machine is working, the FAX machine will switch the line over to the FAX machine, then an automatic reception will start immediately.

d) If the CNG can not detected while the answering machine working, the FAX machine will check whether the answering machine will open the DC loop or not.

e) If the FAX machine detects that the answering machine opens the DC loop or no voice is received for specified time before the switching timer becomes up, the FAX machine will switch the line over to the FAX machine, then the FAX machine will start immediately.

f) If the FAX machine detects that the answering machine opens the DC loop after the switching timer becomes up, the FAX machine will revert to the idling state.

(2) Function Setting

a) Set the reception mode to the FAX/TAD mode.

b) Operator can set the detecting time for no voice during an ICM recording from 0 to 99 seconds. The default value is 45 seconds.

c) Operator can set the FAX reception function. if this function is set ON and the answering cannot work within the switching timer, the FAX machine will start to receive documents.

3.7.11 Remote Reception

There are 3 telephones connected to one TEL LINE.

T1 — the telephone handset attached the facsimile machine

T2 — the telephone connected to the facsimile machine

T3 — the telephone parallel connected to TEL LINE

Operator can start to receive document(s) from T2 and T3 by depressing 5 and # keys on the condition described below.

(1) T2

- a) In [TEL],[FAX],or [TEL/FAX] mode
- b) If T2 has the MF dialer function.
- c) Before facsimile reception sequence starts
- d) During T2 seizes TEL LINE

(2) T3

- a) In [TEL],[FAX],or [TEL/FAX] mode
- b) If T3 has the MF dialer function.
- c) IF the operator pick up the T3 handset during the calling signal ringing from TEL LINE.
- d) During the specified time (default=60 seconds) after the T3 handset picked up. (This duration can be modified by the service setting.)
- e) Before facsimile reception sequence starts

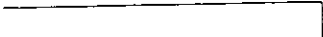


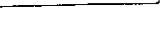
The facsimile machine cannot detect the T3 hook position directly. This machine supposes that T3 is hook-off if the calling signal from TEL LINE stops during the specified time.

In TEL/FAX mode, the calling signal from TEL LINE rings the specified times which the operator sets. The operator needs to pick up the T3 handset this duration. But when the operator picks up the T3 handset during the last calling signal rings,the machine cannot detect T3 hook-off and the automatic reception starts.

3.7.12 Distinctive Ring

(1) Assignment of Ring Patterns

a) CANADA

- i) STD Pattern (2sec ON, 4sec OFF) — TEL
- ii) Two Long 
- iii) Two Short 
- iv) One Short/One Long 
- v) One Long/One Short 

FAX

b) USA

- i) Pattern Nbr.1 (STD) (2sec ON, 4sec OFF) — TEL
- ii) Pattern Nbr.2-9 (except STD pattern) — FAX

(2) Operation

If the standard ring pattern is detected, the telephone (connected to the facsimile) will continue to ring. If the non-standard ring pattern is detected, the facsimile will receive automatically.

(3) Function Setting

Distinctive ringing function is available if the function setting is set to ON.

3.7.13 Caller ID

When the end user receives the incoming call and prior to hook off, the end user will be able to confirm by LCD the following information:

- 1) Calling party's telephone number
- 2) Calling party's name

Note : As to the limitation of the LCD size, Nbr.1) and Nbr.2) cannot be displayed at the same time, therefore when the fax unit receives both of the data, only Nbr.2) is displayed.

Also incoming calls telephone number, name and time is printed on the journal.

3.8 Copy (Multi/Single Copies)

3.8.1 Initiation

When the START key is depressed while documents are set in the scanner and the telephone is on hook, the local copy is carried out and it continues until all documents are copied.

Maximum documents pages = 10 pages

Maximum number of copies = 10 (total pages = 100)

In case listed below, the copy is not permissible.

- a) Document jam
- b) No recording paper
- c) No ink film
- d) Recording paper jam
- e) TPH overheat

3.8.2 Indication

After setting the documents ;

[COPY NBR(1-10) = 7]

During copying;

[COPY : 7/10]

the rest copies ———┐
all copies ———┘

3.8.3 Mode Setting

The mode can be selected from STD, FINE, SF and GRAY by depressing the MODE key. When the operator uses single copy, the resolution of STD mode is changed to 8 pels/mm x 7.7 l/mm (Fine), and the resolution of SF and GRAY mode is changed to 8 pels/mm x 15.4 l/mm.

When the operator uses multi copy function, GRAY is not available and the resolution of STD mode is changed to 8 pels/mm x 7.7 l/mm, and the resolution of SF mode is changed to 8 pels/mm x 15.4 l/mm.

3.8.4 Reset

If the reset key is depressed the copy operation stops. The recording paper will be fed out, then documents will be fed out.

3.8.5 Trouble During Recording

(1) Condition

- a) No recording paper
- b) No ink film
- c) Recording paper jam
- d) e)TPH overheat

(2) Operation

No Recording PaperThe machine stops the operation immediately, LCD will show that trouble has occurred, and an alarm tone is sounded for 4 seconds. All documents are ejected.

3.9 Communication Management

3.9.1 Transmission and Reception Journal

(1) Recording Capacity

Full Tx Communications : 40

Full Rx Communications : 40

(2) Output

a) An automatic output is performed when the number of the transmissions or the receptions reaches the full value provided if the automatic output is set to ON (OFF is initial.)
In case of a manual output, the output of both TX and RX is performed.

b) The oldest transmission and reception journal will be erased if the recording paper is empty when the automatic output starts after a transmission or a reception reaches full communications.

c) In case the automatic output is selected, when the next communication (transmission or reception) is carried out and the number of the transmissions or the receptions reaches the full value again, the communication journal is printed out automatically.

d) Communication records are not deleted even if they are printed out.

(3) Communication Time.

The communication time counting is started as follows:

a) Transmission Side

i) Manual Transmission : After switching the line to the FAX side by pressing the START key

ii) Automatic Transmission : After detecting the CED/NSF/CSI/DIS

b) Reception Side

i) Manual Reception : After switching the line to the FAX side by pressing the START key

ii) Automatic Reception : After switching the line to the FAX side by detecting the ring signal

(4) Communication Destination

The priority order of records of this column is as follows:

a) Automatic Dialing : ID name > CSI/TSI/CIG > NSF/NSS/NSC > dialed number

b) Other than Automatic Dialing : CSI/TSI/CIG > NSF/NSS/NSC

(5) Result Display

Expressed by "OK/NG" with the exception of the following:

a) Blank Display

i) Transmission and Reception of the RTN (if not regarded as an error by function setting).

ii) Automatic Dialing Error (Busy)

b) OK display

i) Reset

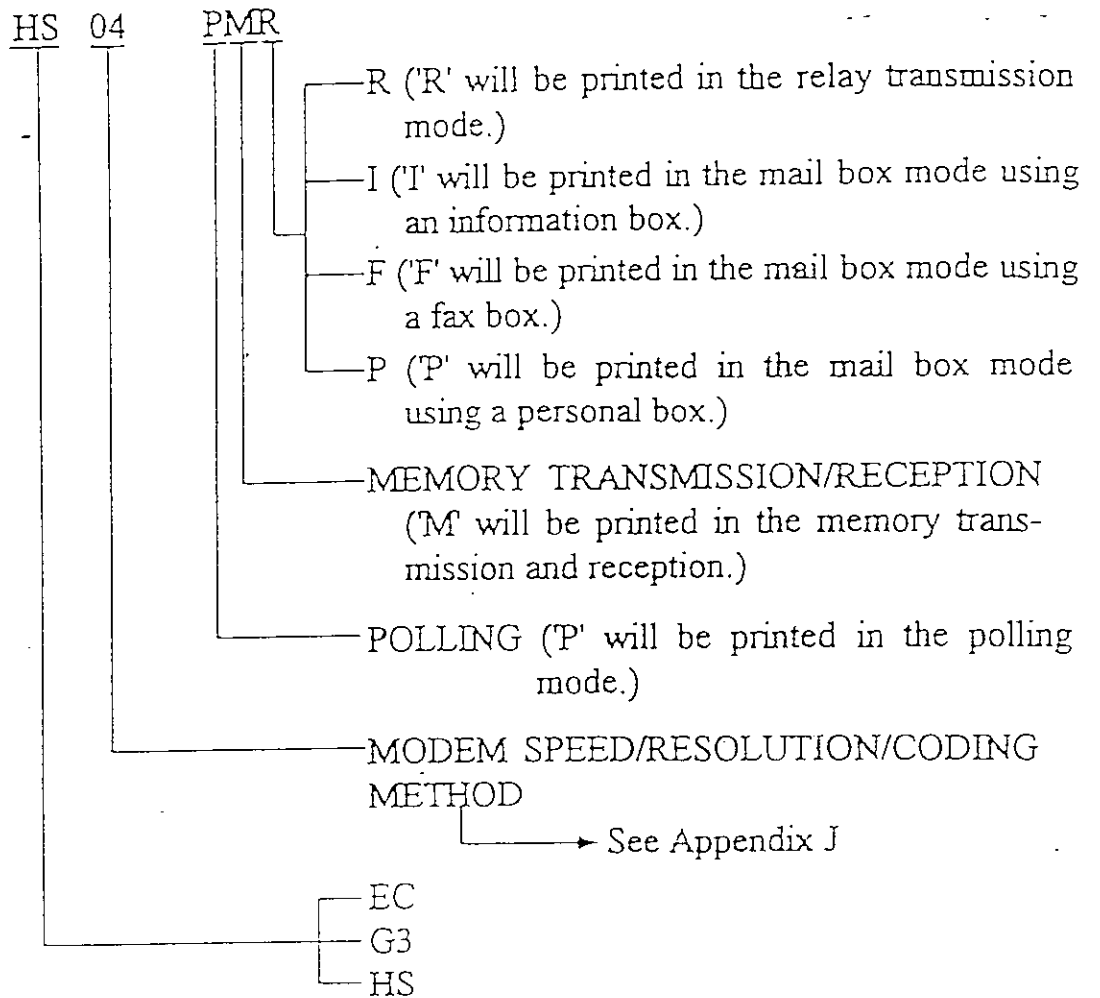
ii) Call Origination Error

(6) Format

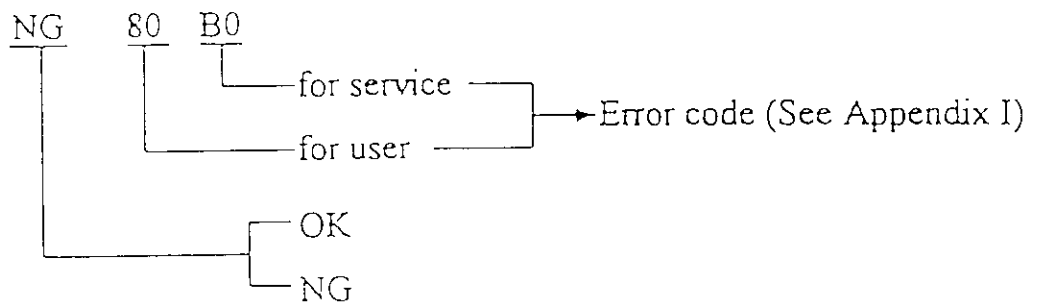
See Appendix A.

(7) Mode/Communication Status on Journal

MODE



STATUS



Note : The service code is printed only in the TEST MODE.

3.9.2 Communication Report

(1) Operation

The communication report is automatically printed out when the single transmission, the memory transmission, or the multi-address transmission or the multi-polling are carried out.

(2) List Output Conditions

- a) Recording paper ready
- b) When the communication report output function is set to ON by the function setting operation.

(3) Output List Size

The minimum length is 90 mm (nominal).

(4) List Output Interrupt Conditions

- a) Recording paper empty or jam
- b) RESET key pressed
- c) Cover open
- d) TPH overheat
- e) Ink Film Empty

Note : In case the recording paper is empty or the jam occurs during printing out the communication report, this report can not be printed out again.

(5) Initial Setting

ON ERROR

(6) Format

See Appendix A.

3.9.3 Transmission Results Display

This function displays the last transmission results on the liquid crystal display (LCD) for error-end after finishing transmissions. When a transmission has finished normally, the LCD prompt returns to the idle state (time display):

When a transmission has finished abnormally, the LCD display shows the following message.

[COMMUNICATION ERROR]

The error message display is cleared by pressing RESET key.

3.9.4 Registration Lists

Following lists are prepared with each format.

- (1) Telephone Number List
 - a) Abbreviated Telephone Number
 - b) One-Touch Dial
- (2) Function List
Contents of the own station's function settings.
- (3) Output Preconditions
 - a) These will be not printed out if there is these recording mechanism disorders : a recording paper empty, a recording paper jam, an ink film empty, a cover open and a TPH overheating.
 - b) The recording paper must be ready.

3.9.5 Transmission Terminal Information (TTI)

The transmission terminal information is added at the top of each page to be sent to the remote FAX.

- (1) Operation
Setting inside or outside of the documents is possible. It is also possible not to send the TTI to the remote FAX.
- (2) Format
See Appendix A.
- (3) Information to be sent
 - a) The date and time when the document will be sent to the remote FAX.
(Time immediately before sending the picture signal of each page.)
 - b) ID Name of TX
Registered name of the transmission station will be shown.
(Alphabet letters and numerals, maximum 20 characters)
 - c) Telephone Number of TX
The registered telephone number of the transmission station will be shown. (Maximum 20 digits)
 - d) Serial Number
The number for each communication (3 digits)
 - e) Page Number
Each serial page number.
- (4) Character Size
Approx. 2.3 mm (vertically) x 1.8 mm (horizontally)
- (5) Other
RTI (Reception Terminal Information) can not be available.

3.9.6 Error Count List

This is a list tabulating numbers of errors occurred for each item regarding the past communications.

- (1) This function tabulates every 1000 communications and moves the communications to the history position when 1000 communications are handled. However, communications less than 1000 can also be moved to the history position by the TEST function, by operating RDC, by printing out the maintenance list or by printing out the error count list.
- (2) Format
See Appendix A.

3.9.7 Menu List

This function is not provided.

3.10 Telephone

3.10.1 Dialing

DP and MF dialing are available.

(1) Setting

Setting on the FAX machine is possible by the function setting. The telephone can be set by the DP/MF select switch.

(2) Power Failure

Dialing by the telephone is possible even during a power failure.

3.10.2 On-Hook Dialing

- (1) When the HOOK key is depressed, the machine connects to the line and turns on the monitor speaker, so that the operator is able to hear the dial tone etc. The LCD shows;

[ON HOOK]

The operator can enter the telephone number to be dialed using the ten-keys pad.

Upon each depression of the key, dialing signal (DP or MF) is sent to the line and the number dialed is displayed on the LCD.

[012345678]

During sending the dialing signal, the monitor speaker is turned off.

- (2) Alternatively, the on-hook dialing may be initiated by depressing the one-touch key or the ABB.DIAL key followed by 2 digit abbreviated number. In this case, the LCD shows the one-touch number or the abbreviated number or the registered name for 2 seconds.

[TOSHIBA]

- (3) After sending the dialing signal, the monitor is turned on again until the handset is lifted.
- (4) Line Monitoring Duration
The line will be released in approximately 5 minutes after dialing by pressing HOOK key and by continuing monitoring as it is.

3.10.3 Hold

The melody can be sent to the other party while the other party is kept waiting during the call.

(1) Operation

The holding melody will be started when the HOLD key is pressed while the handset is off-hooked. The holding melody will be sent to the other party through the line.

The holding can be released by repressing the HOLD key. The holding can also be released by off-hooking the handset again if the handset is on-hooked during holding.

(2) 3-minute Alarm

An alarm sound (beep tone) will be emitted if the holding duration exceeds 3 minutes.

The alarm tone is continued in the monotone of 1 second ON, 2 seconds OFF until the holding is canceled.

(3) Melody

Gavotte en Rondeau (J.S.Bach)

3.10.4 Call Duration Display

This function is not provided.

3.10.5 Flash

When the FLASH key is depressed while the handset is off-hook, the machine disconnects the line for the specified interval then connects it again. (0.5 or 2 seconds can be selected.)

3.10.6 Last Number Redial

The function is used to redial the other party dialed last time.

(1) Operation

The telephone Number dialed previously can be dialed by pressing the REDIAL/PAUSE key instead of the normal dialing. The dialing destinations are the last dialed station including one-touch, abb. and direct dialing.

(2) Number of Redial Digits

The number of digits that can be redialed is a maximum of 38 digits including pause. Redialing will be impossible if the digits exceed 38 digits.

(3) Redial Disabling

By pressing the RESET key after the call started and before the call ends, the redial memory is cleared and redial can be disabled. This function can be used when the telephone destination is not wished to be known.

3.10.7 Chain Dial

In the on-hook condition, the sequential dialing operation using a one-touch dialing, an abbreviated dialing or direct dialing by ten-key pads is possible.

(1) Setting

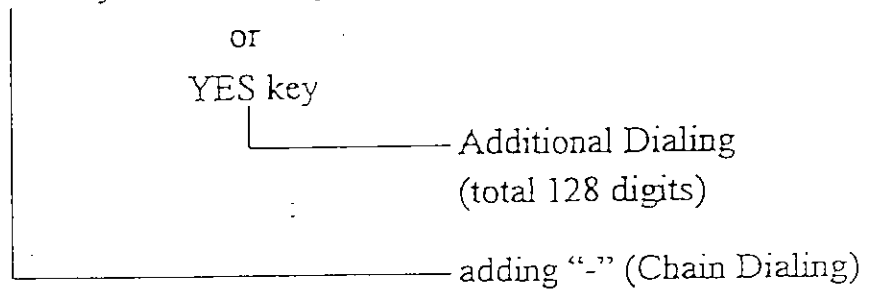
The first dial of the chain dials is added "-" ([PAUSE]key) and registered in the one touch dials.

This function is set by adding "-" to the final digit of telephone number. (ignoring "-" in the telephone number)

(2) Operation

The following operations are available.

- a) One-touch key + Direct dialing + START
- b) One-touch key + One-touch dialing + START
- c) One-touch key + Abb.dialing + START



3.11 Mechanical Control

3.11.1 Document Feed

A maximum of 20 documents can be set at the same time.

(1) Operation

- a) Adjust the document guide to fit the width of the documents to be sent.
- b) Fan the stack of pages with the top and bottom edges slightly graded, make sure to fully insert the documents into the feeder. The machine will pull the documents slightly into the scanner automatically after approximately 2 seconds.
- c) The document feed continues until the top edge of the document turns on the 2nd document detection switch.
If the top edge is not detected within 15 seconds, the automatic document feeding will stop (Document Jam).

(2) Document Feeding Out

Conditions for feed out request:

- a) Reset (during document reading, auto-feeding, copying, and document transmission).
- b) Free document that has been left alone for an hour or longer.
- c) When there is an error.
(The paper-jam during a copying, the paper empty, and the communication error during a document transmission.)

Feeding out process:

The feeding out operation is done until no document remaining is detected.

3.11.2 Recording Paper Remains Check (Paper Window)

A sensor is incorporated to detect the recording paper empty.

3.11.3 Ink Film Remains Check

A sensor is incorporated to detect the ink film empty.

3.11.4 Mechanical Disorders

3.11.4.1 Document Jam

(1) Conditions

a) During Document Feeding:

When the scanning position detect signal (the 2nd detection) does not turn on within 15 seconds after the document starts to feed, it will be recognized as the document jam. But between pages during transmission, this detection time is reduced to 5 seconds.

b) During Document Feeding Out:

When the scanning position detect signal does not turn off within 60 seconds after the document starts to feed out, it will be recognized as the document jam.

c) During Scanning:

With a document length limitation, when the 2nd detection switch does not turn off even after more than one meter is read, it will be recognized as the document jam.

(2) Processing

The operation is terminated and the malfunction display appears.

(3) Cancellation

Take out the document. (Turn off the 1st and 2nd document detection switches.)

Press the RESET key to release.

3.11.4.2 Recording Paper Jam

(1) Operation

A recording paper jam will be detected by a jam sensor.

(2) Jam Pprocess

a) If it does not turn on in case that this sensor must turn on on the timing schedule for feeding a recording paper, the machine will feed the paper []mm.

After that, if this sensor does not turn on yet, it will be recognized as the recording paper jam.

b) If it does not turn off in case that this sensor must turn off on the timing schedule for feeding a recording paper, the machine will feed the paper []mm.

After that, if this sensor does not turn off yet, it will be recognized as the recording paper jam.

(3) Operation after Jam

The local printing for a copying, outputting lists, receiving documents etc. The process will be terminated immediately. (Error message is displayed on the LCD)

3.11.4.3 Recording Paper Empty

(1) Conditions

While the recording paper empty sensor is on, all recording will be disabled. The LCD will display the malfunction indication.

(2) Cancellation

To cancel the malfunction, install the new recording paper, and close the recording paper tray.

3.11.4.4 Cover Open

(1) Conditions

This is constantly monitored by the top cover open switch. If the switch is off, it will be recognized as open.

(2) Processing

The printing head, all of motors, the LED array and all of relays are turned off immediately and the malfunction display appears on the LCD. All of job are stopped.

(3) Cancellation: To cancel, close the top cover.

3.11.4.5 Remove Paper Cassette

(1) Conditions

Whether removing the paper cassette or not is monitored by the paper empty sensor.

If the paper cassette is pulled out, the sensor will be turned on, and then it will be recognized as removed. The error message "PAPER EMPTY" is displayed on the LCD.

(2) Processing

a) During Standby Mode

If the paper cassette is pulled out during a standby mode, all of recordings will be disabled, and after that the malfunction indication will be displayed.

b) During Transmitting

If the paper cassette is pulled out during transmitting, after completing the transmission, all of recordings will be disabled, and the malfunction indication will be displayed.

c) During Printing

If the paper cassette is pulled out during printing, a recording paper jam will occur, and then all of recordings will be disabled, and the malfunction indication will be displayed.

d) During Feeding

If the paper cassette is pulled out during feeding a recording sheet, a recording paper jam will occur, and then the feeding operation will stop, and after that, all of recordings will be disabled, and the malfunction indication will be displayed.

(3) Cancellation

To cancel the malfunction, it is required to load the new recording paper, and to remove the jammed recording paper if necessary.

3.12 Maintenance

3.12.1 Memory Clear

This initializes the data that has been backed up by turning the power off and on in this order while holding down the keys 1, 3, and *.

This initializes the job area, the journal area, the registration area for service technician use, and the user registration area. The memory clear operation is not completed unless these keys are held down until the copyright statement is displayed on the LCD. After this operation, the machine returns to the user mode.

3.12.2 Test Mode

The machine has various test functions which are helpful to diagnose problems. To initiate the Test mode, turn the power off and on in this order while holding down the keys 1 and 3. Here, it is necessary to hold down these-2 keys until the copyright statement appears on the LCD.

3.12.2.1 Function Test

This is used to set or check the unit's functions.

- (1) List of Function Test
 - a) MEMORY CLEAR
 - b) OPE PANEL TEST
 - c) PRINT HEAD TEST
 - d) MODEM TEST
 - e) CML RELAY TEST
 - f) DP TEST 10 PPS
 - g) DP TEST 20 PPS
 - h) MF TX TEST
 - i) PIX MEMORY TEST
 - j) MODEM 9600 BPS
 - k) MODEM 7200 BPS
 - l) MODEM 4800 BPS
 - m) MODEM 2400 BPS
 - n) COPY
 - o) SENSOR CHECK

(2) Description

a) MEMORY CLEAR

Clears the memory.

b) b)OPE PANEL TEST

This test checks if the operation panel's keys, LCD, and the lamp work correctly.

c) PRINT HEAD TEST

This prints out the head temperature data, an all-black pattern, a checkered pattern, and the right hand edge.

d) MODEM TEST

To check the modem operation, this outputs each tonal frequency and G3 training signal. These output signal level can be variable by the values of ATT and EQL can be set by the function setting.

e) CML RELAY TEST

This test checks if the CML relay works correctly. This test is also used to check the NCU circuit(s) in the closed loop condition.

f) DP TEST 10 PPS : DP dial test.

Each time any of ten keys is pressed, the corresponding number is dialed every 1 second until the next key is pressed.

g) DP TEST 20 PPS : DP dial test.

Each time any of ten keys is pressed, the corresponding number is dialed every 1 second until the next key is pressed.

h) MF TX TEST : MF dial test.

Each time any of ten keys is pressed, the corresponding number continues to be sent until the next key is pressed.

i) PIX MEMORY TEST : Checks the DRAMs (4Mbits x 1)

PIX memory test is used to check the picture memory consisting of DRAMs (4Mbits x 1) that is used for the memory transmission and the substitute reception.

Test is carried out by writing the data into the memory and reading out from the memory. When the check is completed, 'OK' will be displayed. If the data are incorrect, the corresponding address and data will be displayed.

- j) MODEM 9600 BPS : Checks the modem in 9600 bps mode.
After setting the modem speed to 9600 bps, the FAX machine will revert to the idling state in the TEST MODE. It is possible to transmit or receive document(s) in this modem speed for this once.
- k) MODEM 7200 BPS : Checks the modem in 7200 bps mode.
This test is same as MODEM 9600 BPS except the modem speed.
- l) MODEM 4800 BPS : Checks the modem in 4800 bps mode.
This test is same as MODEM 9600 BPS except the modem speed.
- m) MODEM 2400 BPS : Checks the modem in 2400 bps mode.
This test is same as MODEM 9600 BPS except the modem speed.
- n) COPY : Checks the copy function.
The FAX machine will return to the idle state in the TEST MODE. After loading document(s), it is possible to carry out the copy by pressing the RETURN key.
- o) SENSOR CHECK : Checks the operation of each sensor.
Input status of each sensor will be displayed on the LCD:
when the sensor is actuated or turned off, the displayed status (hexadecimal) will be changed accordingly.

3.12.2.2. Maintenance Test

(1) MEMORY CLEAR

Clears the memory.

When selecting SYS AREA, all the memory except the user data will be cleared. When selecting ALL, all the data will be cleared.

a) SET FUNCTION

See Section 5, Chapter 3 "Function Setting".

b) MEMORY WRITE

Changes the internal setting of the RAM area.

Sets the system password.

Clear the counter of the scanner and the printer.

c) SET C-LEV

Sets the contrast level.

When selecting the W/B MODE, the slice level in the binary mode is set up. When selecting the GRAY MODE, the gray scale mode is selected and the slice level is set up.

d) W/B MODE

Adjusts the contrast level in the binary mode at 5 levels.

(Light)1 - 5(Dark)

e) GRAY MODE

Adjusts the contrast level of the gray scale at 5 levels.

(light)1 - 5(Dark)

3.12.2.3 Copy (On the Test Mode)

To make a copy in the Test mode, press [FUNC],[YES] after setting the documents and specifying density, etc.

3.12.3 Remote Configuration

This function enables the data reading or writing between a FAX terminal and a center machine. An attenuator and other devices can be set from the center machine to the FAX terminal and the set data in the FAX terminal can be read.

There are two types of the remote configuration - 300 bps method and PIX image (polling) method.

(1) 300 bps method

Data is read or written between a local facsimile and a center machine, or a registration list or a memory dump list is fetched from the local facsimile or the center machine.

a) Write operation (To a local facsimile machine)

The contents to be written are as follows;

- i) Function setting parameters
- ii) Hardware setting (which is possible by software)
- iii) Various registration data (ID, TEL number etc.)

b) Read operation (From a local facsimile machine)

The contents to be verified after reading data are as follows;

- i) Function setting parameters
- ii) Hardware setting
- iii) Various registration data (Contents of ID registration, journal, protocol etc.)

(2) PIX Image Method (Polling Scheme)

A normal polling protocol is used to transmit a list in accordance with the request made at the center machine as an image information.

The center machine can check the contents of various registrations in the local facsimile after receiving the list.

This makes it unnecessary that a local facsimile outputs the list prior to the transmission of the registered data using the 300 bps system or that the center machine outputs the list locally.

The lists include the following;

- i) Total error list
- ii) Protocol trace list
- iii) Function list
- iv) Journal
- v) Telephone number list
 - Abbreviated telephone number information
 - One touch number information

3.12.4 Maintenance Lists

(1) Maintenance-related list output as follows.

a) Protocol Trace List

This is a list of traced telecommunication protocols for the latest telecommunication.

b) Error Count List

This list contains the tabulated number of errors that occurred in past transmissions. The errors are sorted according to the error type.

c) Function List for Maintenance

This list shows the contents of the function setting for the service technician-use.

(2) Operation Conditions

a) The machine must be in the test mode. (Display: Operation is possible only in the test mode.)

b) The recording mechanism should have no disorders.

There will be no output in the following cases:

-Recording Paper Empty

-Recording Paper Jam

-Ink Film Empty

-Cover Open

-TPH Overheating (The operation will not be accepted.)

(3) Format

See Appendix A.

3.12.5 Error Codes

Error codes are the faults of the machine and the communication, and other troubles recorded on the transmission and the reception journal or stored as the maintenance information.

(1) Error Codes

See Appendix I.

The length of an error code is 1 byte. Error codes are divided roughly into the user codes and the maintenance codes for a service technician-use. The maintenance codes are displayed only in the TEST mode. But the maintenance codes are also displayed in the user mode by the function setting.

3.13 Others

3.13.1 TPH Overheating

(1) Initiation

If there is any abnormal overheating of the thermal printing head due to some malfunction, the overheating will be detected and the power to the thermal printing head will be turned off to prevent the FAX machine from an accident. If there is an overheating, the system will become inoperative.

(2) Operation

- a) An abnormal heat is detected by the temperature sensor on the TPH.
- b) If there is any abnormality, the power to the recording head is cut off and this will be indicated on the LCD.
- c) The power will be restored automatically when the TPH temperature lowers sufficiently.

(3) The sensor monitors head temperature at all times, not only during the recording operations.

3.13.2 Option Command
See Appendix G