MURATA

Murata F-75

Operating Instructions

WARNING:

Remove the printer toner, drum and other printer components before reshipping or moving this machine. Spilled toner may result in damage to your fax.

List of Commands

To select a command:

Press the keys shown in the list of commands. To enter a one-touch key in the autodialer, for example, pres **Program**. Use the numeric keypad to enter 0, 4. Then press **Confirm/Enter**.

Keep this reference page close to your fax for a convenient list of your Murata fax machine's commands. For more information, see the page shown in your operating instructions.

Command	Press	Page
1. Transmission		
Transmission	Program, Confirm/Enter	.54
Broadcast	Program, Confirm/Enter, 2	.58
Relay Broadcast	Program, Confirm/Enter, 3	.60
SecureMail Transmission	Program, Confirm/Enter, 4	.61
2. Polling		
Polling	Program, 0, 2, Confirm/Enter	.65
Database Polling	Program, 0, 2, Confirm/Enter, 2	.66
Sequential Polling	Program, 0, 2, Confirm/Enter, 3	.67
Store Polling Doc.	Program, 0, 2, Confirm/Enter, 4	.68
Enter command above, plus:		
Erase Document	Confirm/Enter, 2	.69
Print Stored Document	Confirm/Enter, 3	.69
3. Call Response		
Set Silent Time	Program, 0, 3, Confirm/Enter	.28
4. One-Touch Settings		
Enter One-Touch	Program, 0, 4, Confirm/Enter	.76
Erase One-Touch	Program, 0, 4, Confirm/Enter, 2	.77
Print One-Touch	Program, 0, 4, Confirm/Enter, 3	.78
5. Speed-Dial Settings		
Set Speed-Dial	Program, 0, 5, Confirm/Enter	.73
Erase Speed-Dial	Program, 0, 5, Confirm/Enter, 2	.75
Print Speed-Dial	Program, 0, 5, Confirm/Enter, 3	.75
6. Print SecureMail	Program, 0, 6, Copy	.41
7. Print Activity Journal	Program, 0, 7, Copy	.99
8. Delayed Commands		
Print Commands	Program, 0, 8, Confirm/Enter	.71
Print Stored Doc.	Program, 0, 8, Confirm/Enter, 2	.71
Erase Commands	Program, 0, 8, Confirm/Enter, 3	.72
9. User Settings		
Set Phone Line Type	Program, 0, 9, Confirm/Enter	.29
Second Telephone Hold	Program, 0, 9, Confirm/Enter, 0, 2	.30
Hold Melody	Program, 0, 9, Confirm/Enter, 0, 3	.30
Set Passcode	Program, 0, 9, Confirm/Enter, 0, 4	.31
Set Auto Rx Time	Program, 0, 9, Confirm/Enter, 0, 5	.31
Set Number of Rings	Program, 0, 9, Confirm/Enter, 0, 6	.32
Select Comm. Result	Program, 0, 9, Confirm/Enter, 0, 7	.33
Set Scanner Width	Program, 0, 9, Confirm/Enter, 0, 8	.34
Set Primary Mode	Program, 0, 9, Confirm/Enter, 0, 9	.34
Set Contrast	Program, 0, 9, Confirm/Enter, 1, 0	.35

9. User Settings, continued

9. User Settings, continued

10. Program One-Touch

11. Error Correction Mode

12. RS-232C

Reception

Press **Receive Mode** to select automatic or manual fax reception. Choose Tel Ready if you want to answer each call manually, or choose from three options for automatic reception—Fax Ready, Tel/Fax Ready or Ans/Fax Ready. See page 25 to choose the setting suited for your needs.

To manually receive a fax, pick up the fax phone when it rings. You will hear distinctive transmission tones from the calling unit. Press **Start** to begin reception, then hang up.

Transmission

1. Insert your document face down into the feeder. Press **Mode/Select** to set the resolution and **Original/Cancel** to set the contrast.

2. Use the numeric keypad to enter the telephone number for the remote fax. If you enter a number by mistake, press **Original/Cancel**. You can use the dash key to make long numbers easier to read.

```
Fax Ready
1-214-403-3499
```

3. Press **Start**. Your fax will begin dialing.

```
1-214-403-3499
A4          FINE      LIGHT
```
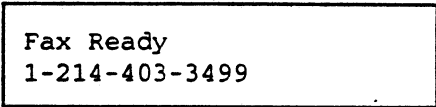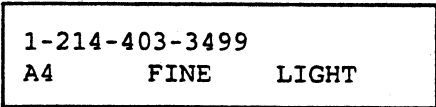
You can also use the telephone handset to dial fax calls: Insert the document face down into the feeder. Pick up the fax handset and dial the remote unit. When it answers, press **Start** to begin transmission. Then hang up the handset.

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User Settings, continued

Reception/Copying

Transmission

Polling

Delayed Commands

Autodialer

Specifications

Type: High-speed facsimile transmitter and receiver for office use **Compatibility:** CCITT Group 3 and Group 2 **Trans. Speed*:** 12 seconds per page average **Phone Line:** Public switched telephone network or the equivalent. Leased or dedicated telephone line not required **Modem:** 9600 bps with automatic fall-back to 7200, 4800 and 2400 bps per CCITT V.29 and V.27 ter. **Delayed Commands:** 5 **Doc. Memory**:** 32 pages **Doc. Feeder:** 30 pages **Resolution:** Superfine(transmit only) 203 H x 392 V lpi: Fine 203 H x 196 V lpi: Normal 203 H x 98 V lpi: Grayscale 16-level **Printing Width:** 8.5 inches **Scanning Width:** 10.1 inches **Scanning Method:** Solid-state CCD **Power:** 115 VAC ± 10%, 50-60 Hz **Dimensions:** 16.4 (w) x 17.8 (d) x 10.2 (h) inches (418 x 451 x 260 mm) **Weight:** 50 pounds **Orig. Doc. Size:** Maximum: 11 (w) x 14.3 (l) inches; Minimum: 4.7 (w) x 3.9 (l) inches

* Based on memory-to-memory transmission of CCITT Test Chart 1 to another Murata fax machine. Your transmission times will vary based the size of your document, the complexity of images on the document and the resolution at which your document is scanned.

** Based on storage of CCITT Test Chart 1 in normal resolution.

Available during transmission to a Murata fax machine with superfine.

Do You Have a Comment?

Your comments and suggestions on this manual are welcome. Fax your comments to Murata Business Systems Product Development, (214) 403-3499.

Regulations

FCC Regulations

Ringer Equivalence Number: 2.0B

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures.
*   Reorient or relocate the receiving antenna.
*   Increase the separation between the equipment and receiver.
*   Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
*   Consult the dealer or an experienced radio/TV technician for help.

Type of Service

Your fax is designed for use on standard device telephone lines. Your fax connects to the telephone line with a standard jack called the USOC RJ-11C. Connection to telephone company-provided coin service (central office implemented systems) is prohibited. Connection to party line service is subject to State tariffs.

Telephone Company Procedures

The goal of the telephone company is to provide you with the best service it can. In order to do this, it may occasionally be necessary for them to make changes in their equipment, operations, or procedures. If these changes might affect your service or the operation of your equipment, the telephone company will give you notice, in writing, to allow you to make any changes necessary to maintain uninterrupted service.

If you have any questions about your telephone line, such as how many pieces of equipment you can connect to it, the telephone company will provide this information upon request.

In certain circumstances, it may be necessary for the telephone company to request information from you about the equipment which you have connected to your telephone line. Upon request of the telephone company, provide the FCC registration number and the ringer equivalence number (REN) of the equipment which is connected to your line. Both of these numbers are listed on the equipment label attached to your fax machine.

The sum of all RENs on your telephone line should be fewer than five (5) in order to assure proper service from the telephone company. Sometimes, a sum of five (5) may not be usable on a given telephone line.

If Problems Arise

If any of your telephone equipment is not operating properly, you should immediately remove it from your telephone line, as it may cause harm to the telephone network. If the telephone company notes a problem, they may temporarily stop service. When practical, they will notify you before this disconnection. If advance notice is not feasible, you will be notified as soon as possible. When you are notified, you will be given the opportunity to correct the problem and will be informed of your right to file a complaint with the FCC.

In the event repairs are ever needed on your fax, they should be done by Murata Business Systems, Inc., or an authorized representative of Murata Business Systems, Inc. For information, contact the Murata Customer Support Center (see page 122).

DOC Regulations

DOC Load Number: 20

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulation of the Canadian Department of Communications.

Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la classe B prescrites dans le Règlement sur le brouillage radioélectrique édicté par le ministère des Communications du Canada.

NOTICE: The Canadian Department of Communications label identifies certified equipment. This certification means the equipment meets certain telecommunications network protective, operational and safety requirements. 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 be connected to the facilities of the local telecommunications company. The equipment must also be installed using an acceptable method of connection. Sometimes, the company's inside wiring associated with a single line individual service may be extended with a certified connector assembly (telephone extension cord). The customer should be aware that compliance with these conditions may not prevent degradation of service in some situations.

Repairs to certified equipment should be made by an authorized Canadian maintenance facility designated by the supplier. Any equipment malfunctions or repairs or alterations made by the user to this equipment 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.

The Load Number assigned to each terminal device denotes the percentage of the total load to be connected to a telephone loop which is used by the device to prevent overloading. The termination on a loop may consist of any combination of devices subject only to the requirement that the total of the load numbers of all the devices does not exceed 100.

The DOC Load Number for your fax is 20.

Before You Call...

Q: How do I install my fax so it can work with my answering machine?

A: See page 27 for information on connecting your answering machine to the Phone 2 jack.

Q: I tried to install my printer drum, but I feel like I'm forcing it into the slot. What am I doing wrong?

A: You probably have not opened the drum cover. See page 17 for instructions on how to open the drum cover. When opening the drum cover, be careful not to scratch the drum's surface.

Q: I inserted the contents of my toner cartridge and a "2" appeared in the window on the left. What does this number mean?

A: See page 19 for information on the toner indicator window.

Q: I followed the instructions for installing paper in my fax machine's paper cassette tray, but I keep getting paper jams. What's the problem?

A: Perhaps you have installed paper that's too thick or too thin. Your fax accepts regular copier paper. See page 11 for more information on the required paper for your fax.

Q; How do I know my toner unit and drum are installed correctly?

A: Make sure to carefully follow the instructions on installation beginning on page 12.

Before You Install...

Telephone Requirements

Your fax works on standard telephone lines and, with Murata's voice/fax switch and switch-to-fax feature (see page 50), can share the line with a telephone answering machine or second telephone.

Your fax connects to the telephone system with a standard modular jack, called a USOC RJ-11C. If you do not have an RJ-11C jack where you want to install your fax, call your telephone company for information on installation.

Do not connect your fax to a private branch exchange (PBX) system without first checking with the system manufacturer or service representative. Some PBX systems are not compatible with facsimile operation.

You may want to connect your fax to a telephone electrical surge protector. A protector can absorb and divert high-voltage surges caused by lightning or static electricity without interfering with normal telephone operation.

A Note About Call-Waiting Signals

Fax transmission and reception can be stopped by telephone call-waiting signals. If you have requested call-waiting service for the line to which you will connect your fax, you may experience interruptions of facsimile service.

Electrical Requirements

Power your fax from any standard three-pronged 115-volt electrical outlet. Do not plug your fax into an outlet that is turned off at the end of the day: Although your telephone directory and most other user settings are protected against power failure for several days by a rechargeable internal battery, documents stored in memory will be lost if you turn off power to your fax.

Don't install your fax on the same electrical circuit as an air conditioner, copying machine or other high-consumption electrical appliance. These appliances can cause electrical "draw-downs" when they operate—temporarily reducing the power available for other equipment on the circuit—and could damage your fax.

You may want to power your fax from an electrical surge protector connected to your wall outlet. A surge protector protects your fax from high-voltage surges in the AC line that may cause damage to your fax.

Voltage Requirements

115 volts AC ± 10%, 50-60 Hz, single phase

Power Consumption

Standby	25 W	Transmission	45 W
Copy	50 W	Reception	85 W

The power consumption given applies when the printer heater is turned off. When the printer heater is on, the standby power consumption is approximately 500 W.

Unpacking

Stop!

Please do not install your fax where there is a danger of:

Overheating
Allow at least 10 inches clearance from the top and the sides of your fax machine. Don't install your fax machine in direct sunlight.

Improper Ventilation
A small amount of ozone is emitted during printing operation. The amount of ozone emitted is very small, and is not harmful. When the area around the fax is improperly ventilated, heavy-volume printing could generate a characteristic ozone odor. Ensure adequate ventilation by allowing at least 10 inches clearance from the top and sides of your fax machine.

Dust
Keep your fax in top form: Don't install it where dust can settle and accumulate.

Splashes
Keep your fax away from sinks, water fountains and other sources of splash and spray.

Vibration
Keep your fax on a level, vibration-free surface to improve performance and system life.

Open the shipping carton and take out the accessory box, telephone handset, telephone cradle, telephone line, power cord, toner set, drum set and product documentation.

Carefully lift the fax and its protective foam braces out of the carton. Remove the foam braces and protective plastic bag.

Keep the bag, braces and carton for reshipment. Discard the silica desiccant shipped with your fax.

After unpacking, check for the following:

1. Fax console
2. Letter-sized paper cassette tray
3. Telephone handset
4. Telephone cradle
5. Telephone line
6. Telephone curl cord
7. Power cord
8. Toner Set
9. Drum Set
10. Document tray
11. Document tray wire
12. Documentation and labels
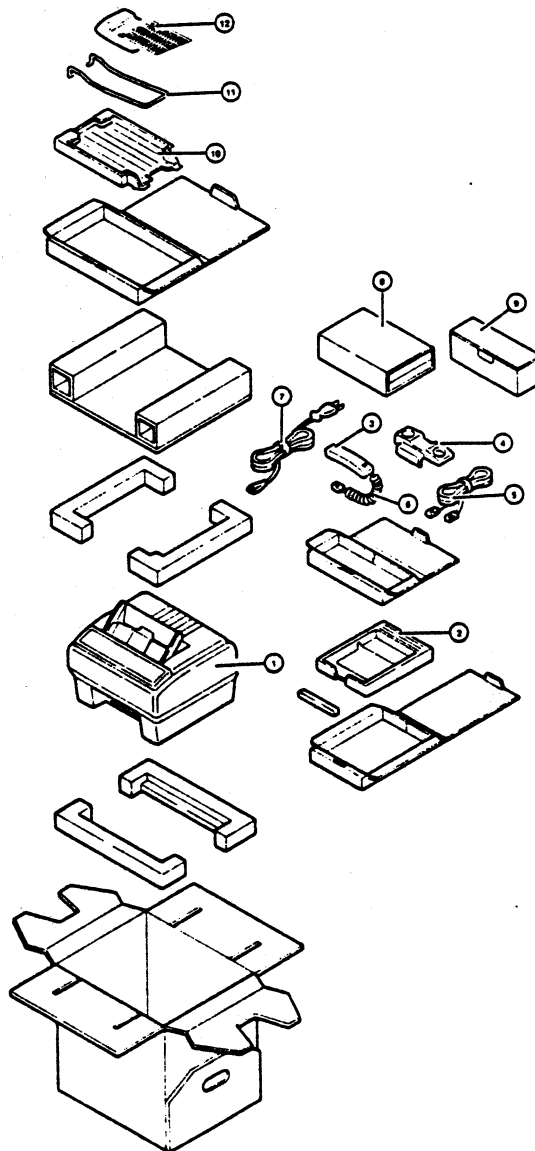
Machine Layout
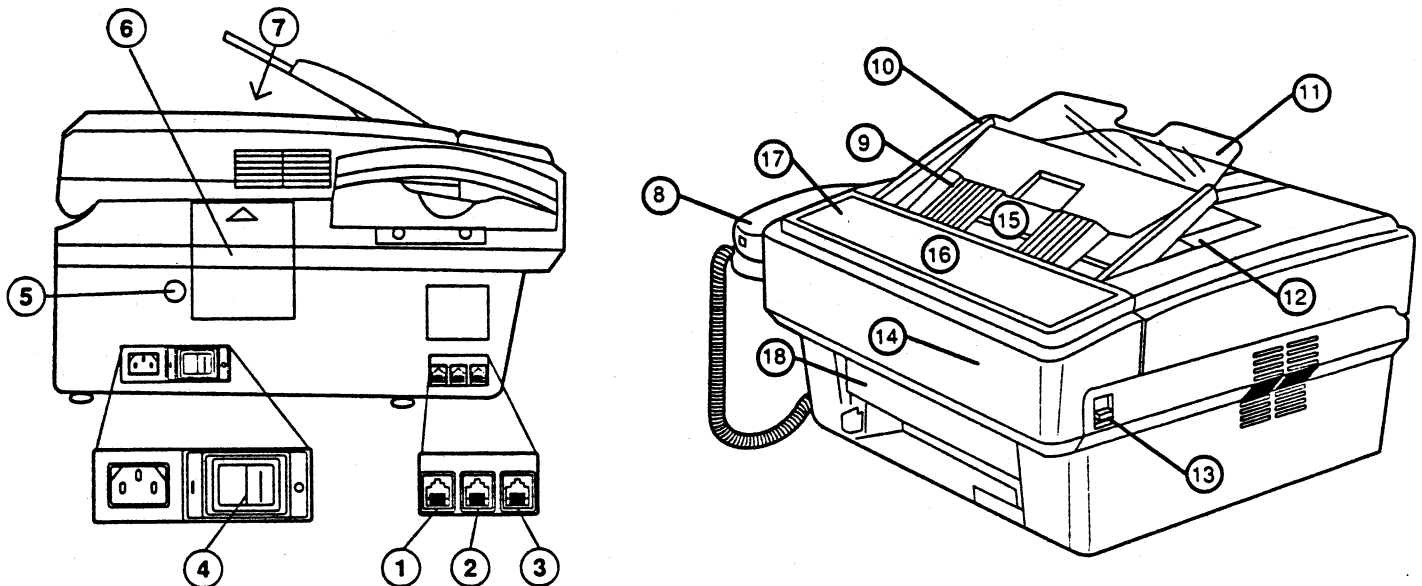
1. **Line**—Standard RJ-11C modular jack for telephone line from wall jack.

2. **Phone 2**—RJ-11C modular jack for telephone answering machine, cordless telephone or other telephone device.

3. **Phone 1**—RJ-11C modular jack for telephone handset.

4. **On/Off Switch**—Leave your fax on all the time so you never miss an important transmission.

5. **Print Density Adjustment**—Allows you to adjust toner density if copies are too light or too dark.

6. **Side Cover**—Cover for waste toner bottle compartment.

7. **Document Exit**—Exit for copied or received documents.

8. **Telephone Handset**—With keypad, ringer volume adjustment and rotary/tone dial settings for the handset keypad.

9. **Document Guides**—Guides adjust to accept pages up to 11 inches wide.

10. **Document Mount Assembly**—Supports documents in feeder.

11. **Document Hopper**—Supports documents placed in document feeder.

12. **Top Cover Release Button**—Firmly press button to open top of machine.

13. **Feeder Cover Release**—Press down to open document feeder cover.

14. **Document Feeder Cover**—Open feeder cover if document jams during transmission.

15. **Document Feeder**—Automatically feeds pages through scanner for transmission or copying.

16. **Keypad**—See below for more information on each key.

17. **LCD**—Two-line, 20-character display shows system status and fax operation.

18. **Paper Cassette Tray**—Holds 250 sheets of letter-sized copier paper for your fax receptions and copies.
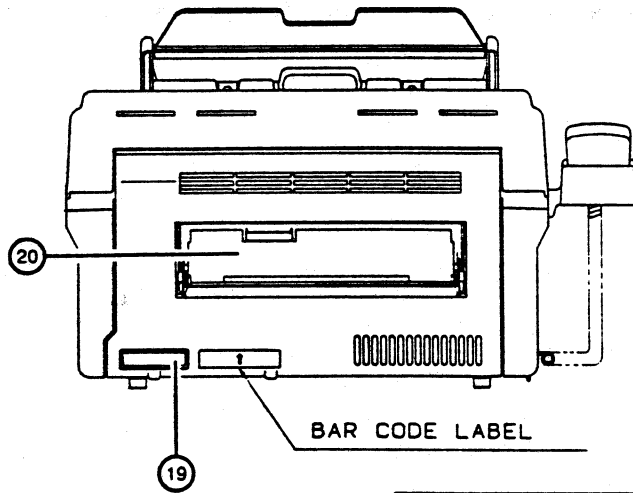
19. **RS-232**—Use your fax as a computer text printer or use optional FIP computer-to-fax interface capabilities.

20. **Back cover**—Lift up to remove jammed paper.

BAR CODE LABEL

Keypad Layout
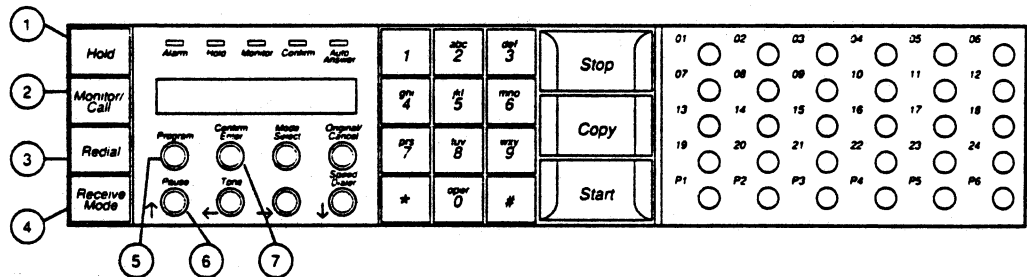
1. **Hold**—Press to place a call on hold. Your fax offers an optional hold melody (see page 30).

2. **Monitor/Call**—While the telephone handset is down, press **Monitor/Call** to get a dial tone. During fax transmission or reception, press to signal that you would like to speak with the remote fax operator, if one is present (see page 51).

3. **Redial**—Press to redial the last number dialed.

4. **Receive Mode**—Press to select from three types of automatic call reception and manual call reception (see page 26). The Auto Answer LED will light when automatic reception is selected.

5. **Program**—Press to enter the program mode. Use **Program** to scroll through the command categories available in your fax.

6. **Pause**—Use when storing a one-touch or speed-dial telephone number. Generates a dialing pause useful when dialing through some telephone exchanges or when calling overseas.

7. **Confirm/Enter**—Press during transmission to manually request or cancel a confirmation report (see page 33). The Confirm LED will light when a report has been requested. Also used when programming information into your facsimile machine.

Keypad Layout, continued
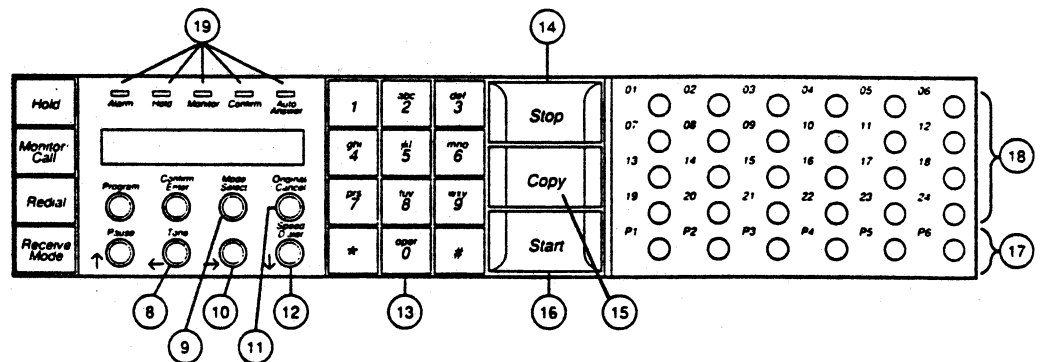
8. **Tone**—Used for special dialing requirements on some rotary telephone systems (see page 88).

9. **Mode/Select**—Before transmission or copying, use **Mode/Select** to choose the resolution needed. Also used when programming information into your facsimile machine.

10. **Dash Key**—Press to enter a dash, "—", into your autodialer numbers and Subscriber ID.

11. **Original/Cancel**—Before transmission or copying, use **Original/Cancel** to choose the contrast setting needed. When entering a telephone number or programming other information in your fax, press **Original/Cancel** to delete the last character entered. Also used when programming information into your fax.

12. **Speed Dialer**—Press before entering a two-digit speed-dial number. While a group transmission or polling operation is underway, press **Speed Dialer** to briefly interrupt the group function for a new command (see page 59).

13. **Numeric Keypad**—Use to enter data, dialing instructions and speed-dial numbers.

14. **Stop**—Press to stop the facsimile function underway and return your fax to standby mode.

15. **Copy**—Press to copy documents inserted in the document feeder.

16. **Start**—Press to begin manual transmission or reception.

17. **Programmable Keys**—Six keys, **P1** through **P6**, that can be used as one-touch transmission commands to a single remote unit or as multi-step commands for polling, relay broadcasting and other functions (see page 78).

18. **One-Touch Keys**—One-touch transmission commands, numbered **01** through **24**, for your frequently called numbers.

19. **Status Lamps**—Alarm: Shows when an error has occurred. Hold: A caller is on hold. Monitor: The machine's monitor is in use. Confirm: A confirmation report (see page 33) has been requested after the current transmission. Auto Answer: When lit, the fax will respond to incoming calls automatically.

Installation

1. Make sure the **On/Off** switch at the left side of the machine is off.

2. Next, plug the telephone line into the connector marked "Line" on the left side of your fax. Plug the other end into the telephone wall jack. (Fig. 1)
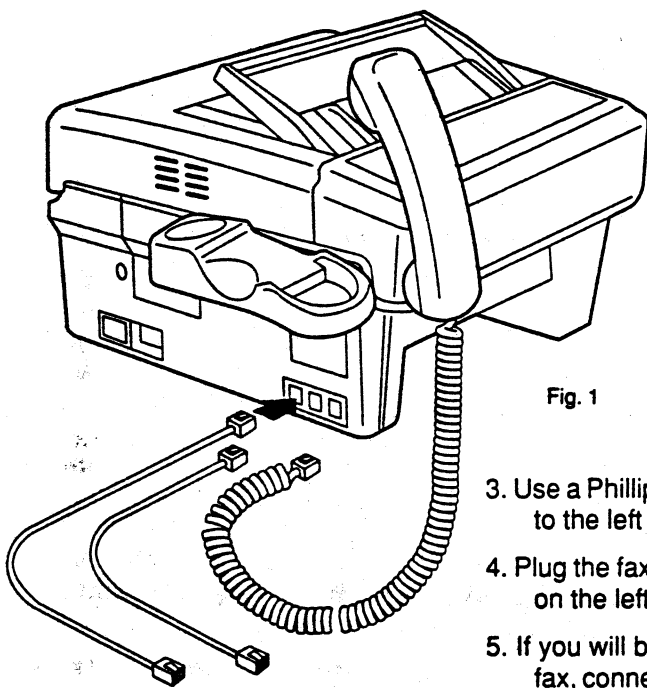
Fig. 1
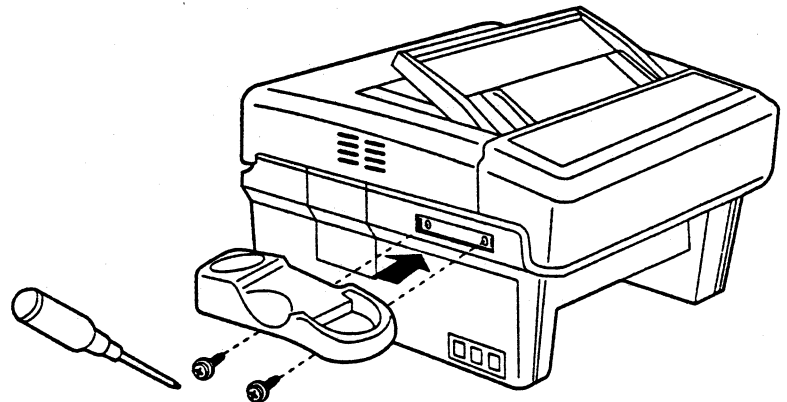
Fig. 2

3. Use a Phillips screwdriver and the handset cradle screws to attach the cradle to the left side of your fax. (Fig.2)

4. Plug the fax machine's telephone handset cord into the "Phone 1" connector on the left side of the fax. Hang the handset on its cradle. (Fig. 3)

5. If you will be using a second telephone or an answering machine with your fax, connect the telephone line from this device to the "Phone 2" connector. Do not connect your answering machine directly into a wall jack. See page 27 for instructions on using an answering machine with your fax. (Fig. 4)
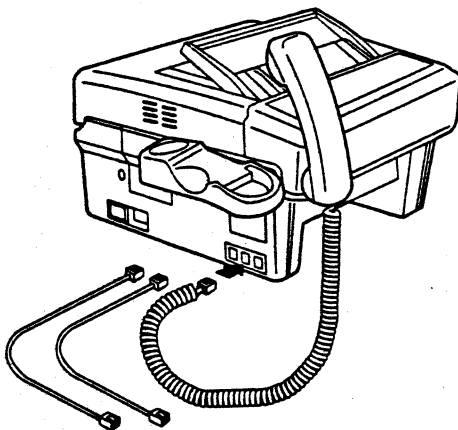
Fig. 3
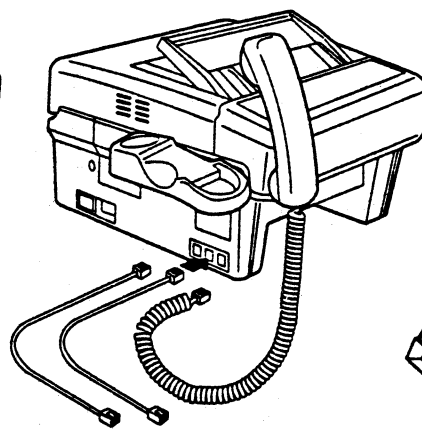
Fig. 4
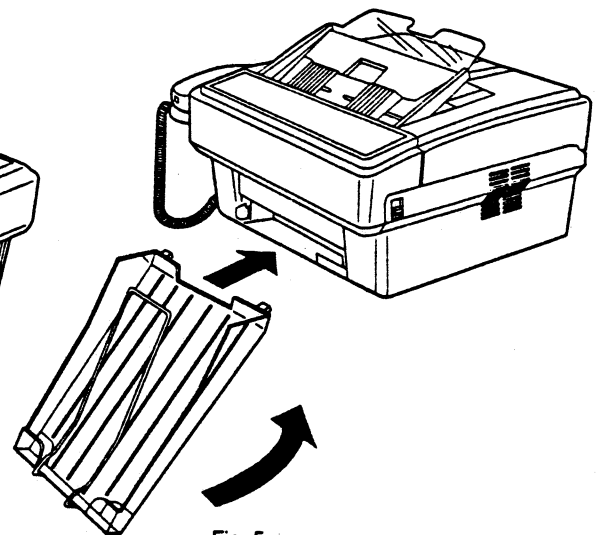
Fig. 5

6. If you wish to install your fax at the edge of a desk, attach the document tray to the front of your fax as shown. (Fig. 5) The tabs at the top of the tray should fit into the notches below the paper cassette tray. Attach the document tray wire to the front of the document tray.

7. Attach the power cord to the connector at the left side of the fax. (Fig. 6) Plug the other end into a three-pronged outlet. Turn the On/Off switch on.
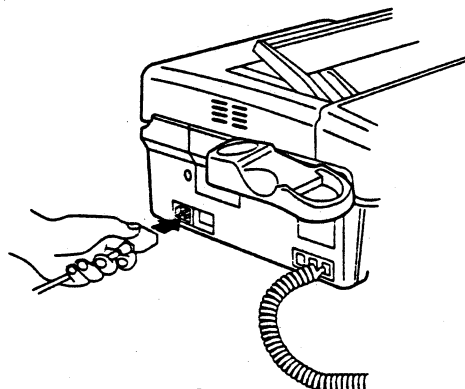
Fig. 6

What's the Right Paper For Your Fax?

To ensure smooth operation and long life of your Murata fax, make sure to use the right paper in your machine. We recommend high- or standard-quality 20-pound copier (or xerographic) bond paper. Remember that using the wrong paper can cause damage your fax, cause paper feed problems and reduce reliability of your machine's printer.

Installing Paper

To install paper in your Murata fax:

1. Remove the paper cassette tray from the front of the fax. To remove the paper cassette tray, lift up on the tray slightly and pull it toward you. (Fig. 1)

2. Place several sheets of 8.5" x 11" (letter-sized) paper into the paper cassette tray. Make sure the paper lies underneath the brackets on the edges of the tray. (Fig. 2)
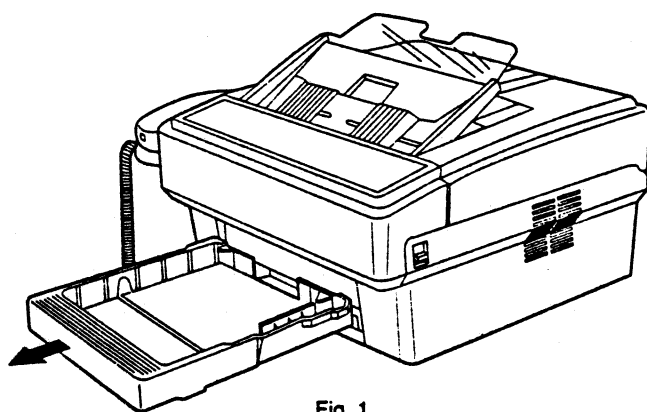
Fig. 1
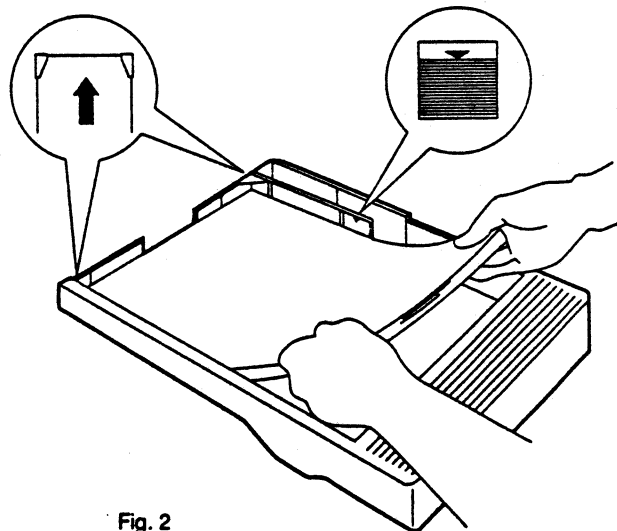
Fig. 2

Notes: Do not place more than 250 sheets of paper into the paper cassette tray at a time. A paper level indicator shows you the maximum amount of paper allowed.
After you remove paper from a ream, make sure and tightly rewrap the remaining paper. Paper should not be exposed to humidity: Moisture can cause paper to stick together, resulting in paper jams.

3. Once the paper is loaded, insert the paper cassette tray into its place at the front of the fax. You'll hear a click when the tray is properly inserted.

See the following section on Fax Printer Components for information on preparing your fax for plain-paper printing.

Installing Printer Components

Your shipping box includes a Toner Set and a Drum Set, which contain accessories for your fax machine's printing engine.

Your Toner Set
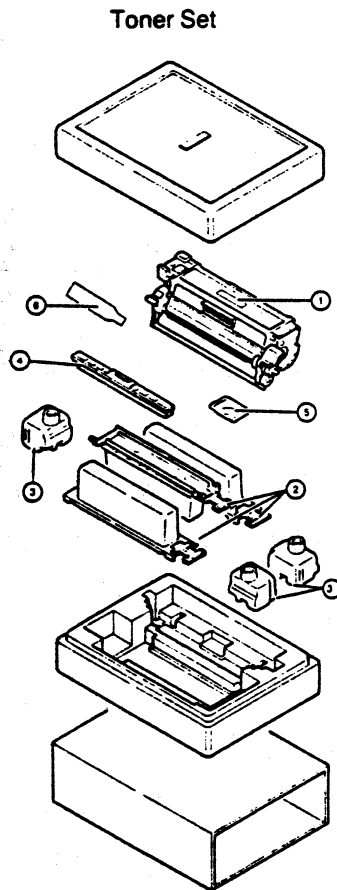
Toner Set

The box labelled "Toner Set" contains the toner unit, toner cartridges and items required for replacement and maintenance. The toner unit is good for about 10,000 impressions. Unpack your Toner Set and ensure the following items are included:

1. **Toner unit**—The toner unit helps to produce the image on the surface of the printer's drum. Toner is added by the user after the unit is installed.

2. **Toner cartridge**—The toner cartridge supplies toner for the toner unit, and can last for about 3,500 impressions.

3. **Waste toner bottle**—The waste toner bottle should be replaced each time you add toner.

4. **Fuser cleaner**—The fuser cleaner cleans the fuser unit rollers, and should be replaced each time the toner unit is replaced.

5. **Cleaning paper**—Cleaning paper is used to clean the area around the toner unit if quality of printed pages is poor.

6. **Toner cleaner**—The toner cleaner is used to clean the toner unit roller if quality of printed pages is poor.

Drum Set
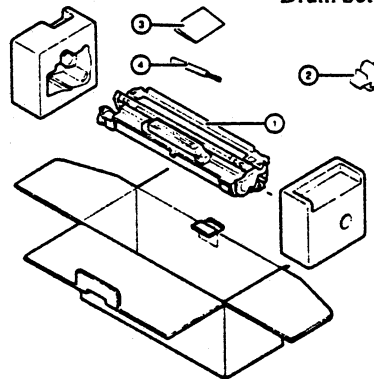
Your Drum Set

Your Drum Set contains your printer's drum and items necessary for regular maintenance of your drum. Your printer's drum is good for about 12,000 impressions. Unpack your drum set and ensure the following items are included:

1. **Drum**—The photosensitive drum should be replaced after about 12,000 impressions.

2. **Process cleaner** —The process cleaner is used to clean the drum set components if quality of printed pages is poor.

3. **Cleaning paper**—The cleaning paper is used to clean the drum set components if quality of printed pages is poor.

4. **Cleaning brush**—The cleaning brush is used to clean the waste toner bottle compartment.

Handling Precautions

To ensure long life and reliability of your toner unit. drum and accessories:

- Store the toner unit, toner cartridges and drum in their original boxes and keep in a cool, dry place. For long life, store components where the temperature is between 32-95° F, with relative humidity between 20 and 80 percent with no condensation.

- Keep toner unit and drum away from water, oil and other liquids.

- Do not subject the toner unit, toner cartridges or drum to sudden temperature changes, vibrations or impact.

- Do not touch the toner surface or allow foreign objects to enter the toner unit.

- When the toner unit is temporarily removed from your unit, place it on a flat surface with the sealed side facing up.

- Lay toner cartridges flat for storing. Do not stand them on their ends.

- Do not touch the drum surface.

- Do not expose the drum's surface to direct sunlight or other strong light.

Removing the Transport Guides

Your fax is shipped with transport guides inside the printing area. These guides protect the printing area during shipping. Keep these guides for reshipping.

To remove the transport guides:

1. Make sure your machine is turned off. Press the top cover release to open the top cover. (Fig. 1)

2. Look for the spacer on the upper guide plate. Move the spacer as indicated by the arrows, avoiding the upper guide plate's grip. (Fig. 2)
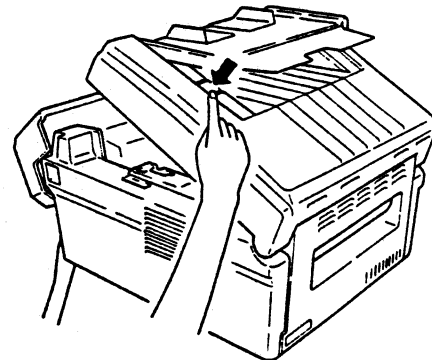
Fig. 1
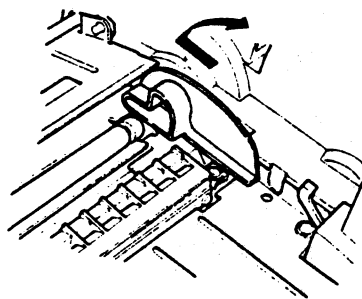
Fig. 2
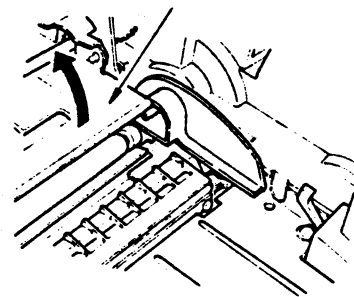
Fig. 3

3. Lift up the upper guide plate, and remove the spacer as indicated. (Fig. 3) Repeat for the other side.

4. Open the felt-covered fuser unit cover. (Fig. 4)

WARNING: HOT SURFACE AVOID CONTACT   ATTENTION: TEMPERATURE ELEVEE
ADVERTENCIA: TEMPURATURA ELEVADA   VORSICHT HEISS
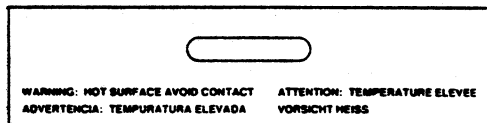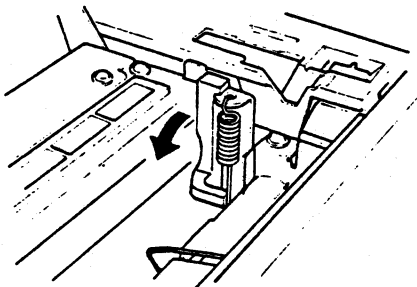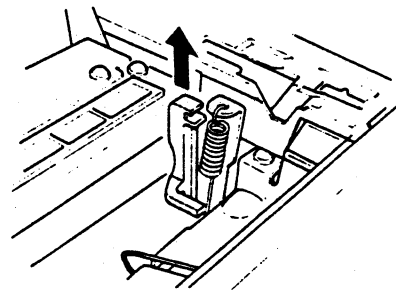
Fig. 4   Fig. 5   Fig. 6

4. Remove the spacer as indicated by the arrows. (Figs. 5, 6)

5. Repeat for the other side.

Installing the Toner Unit:

To install the toner unit:

1. Make sure your fax is turned off. Press the top cover release to open the top cover.

2. Remove the toner unit from the toner set box and remove its protective covering.

3. Holding the toner unit at the orange and black grips, line up the pegs on either side with the green arrows at the back of the fax's printing area. Insert the pegs into the notches. When inserted properly, the toner unit should be level.
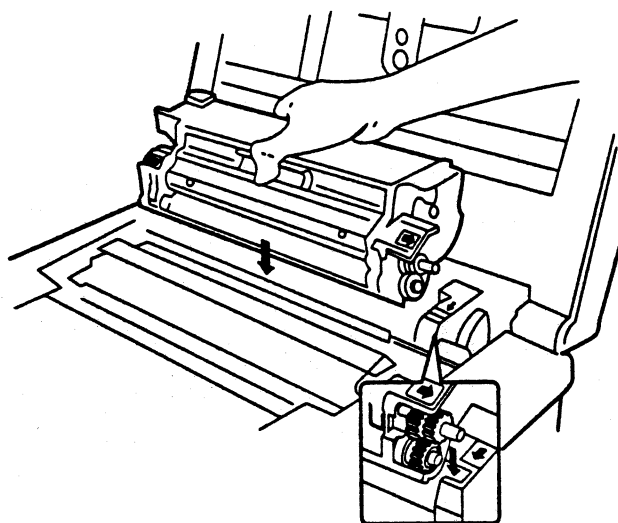
Now you're ready to add toner.

Supplying Toner

Your toner unit is shipped without toner. Follow the instructions below to add toner to your toner unit. **Do not place the toner cartridge inside the toner unit: After you add toner, discard the cartridge. Add only one toner cartridge at a time.**

To add toner:

1. Lift up on the small black clips on either side of the toner unit front and flip open its lid. (Fig. 1)

2. Remove the toner cartridge from its protective wrapping.
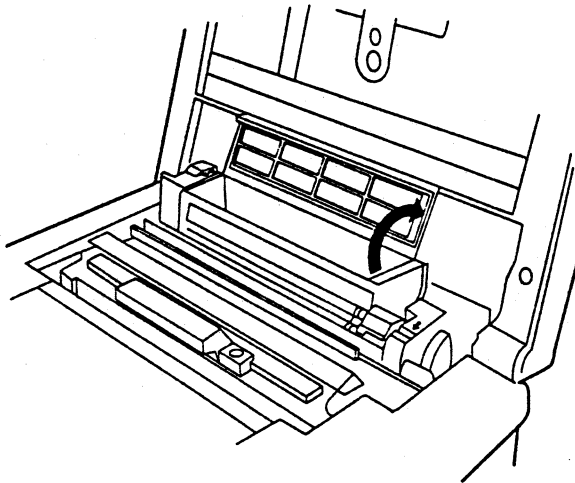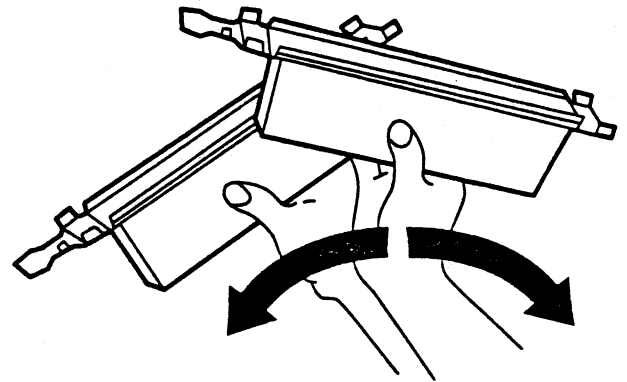
Fig. 1   Fig. 2

3. Keeping the sealed side up, gently shake the cartridge to distribute the toner evenly. (Fig. 2)

4. Hold the new toner cartridge sealed side up, so the orange tab is on the left side. You'll see black tabs on the sealed side of the toner cartridge. Insert these tabs so they hook over the pegs in front of the toner unit. (Fig. 3)
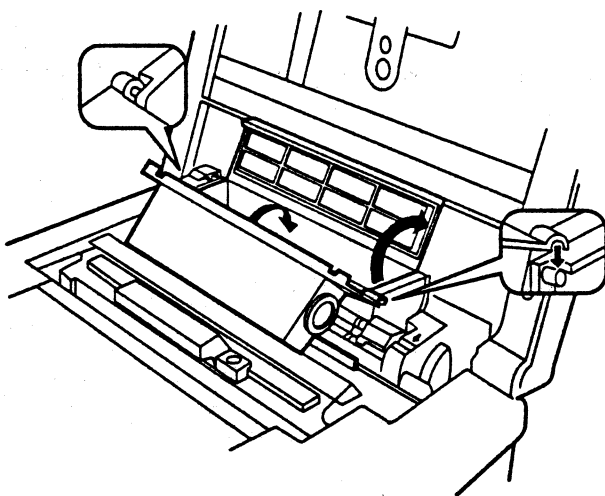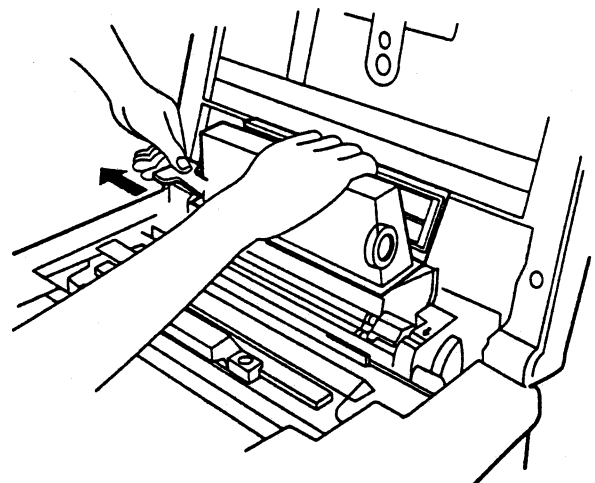
Fig. 3   Fig. 4

5. Swing the toner cartridge so the sealed side covers the toner unit.

6. Slowly pull the orange tab to the left to remove the cartridge seal. Discard the seal. (Fig. 4)

7. Tap the top of the cartridge to dispense all the toner.

8. Carefully tilt the cartridge down and remove it from the pegs. (Fig. 5) Be careful not to spill any excess toner.

9. Firmly close the toner unit cover so the black plastic tabs click into place. (Fig. 6) Discard the empty toner cartridge.
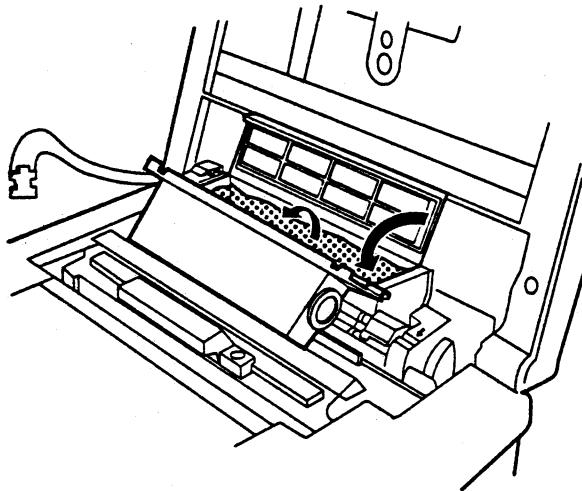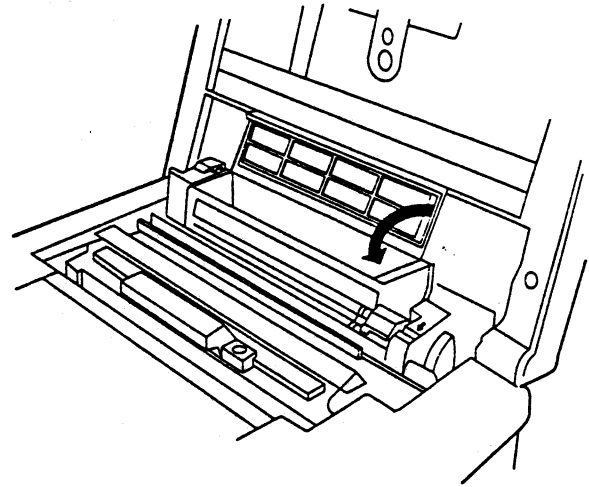
Fig. 5   Fig. 6

Next you'll install the fuser cleaner.

Installing the Fuser Cleaner

The fuser cleaner cleans the fuser unit rollers, and should be replaced each time you replace the toner unit.

To install the fuser cleaner:

1. Open the felt-covered fuser unit cover. (Fig. 1)

2. Remove the fuser cleaner from its protective covering.

3. Hold the fuser cleaner by the orange handle and place in the slot provided. (Fig. 2)

WARNING: HOT SURFACE AVOID CONTACT   ATTENTION: TEMPERATURE ELEVEE
ADVERTENCIA: TEMPURATURA ELEVADA   VORSICHT HEISS
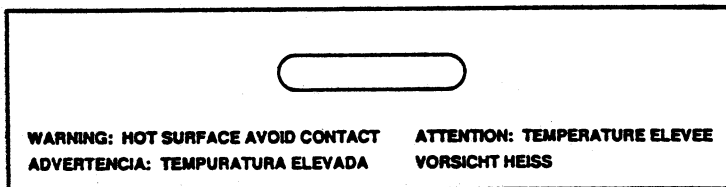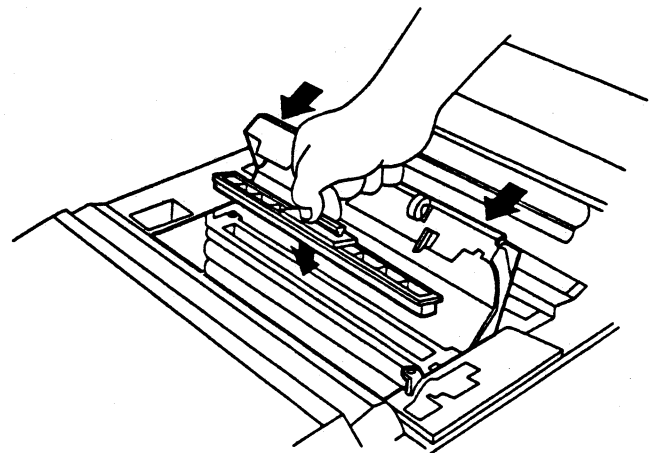
Fig. 1   Fig. 2

4. Close the fuser unit cover. Next you'll install the waste toner bottle.

Installing the Waste Toner Bottle

The waste toner bottle catches the excess toner and should be replaced each time you add toner.

To install the waste toner bottle:

1. Look for the side cover on the left side of your fax, behind the fax handset. Pull up the side cover. (Fig. 1)

2. Slide a waste toner bottle into the compartment so it snaps into place. (Fig. 2) Close the side door.
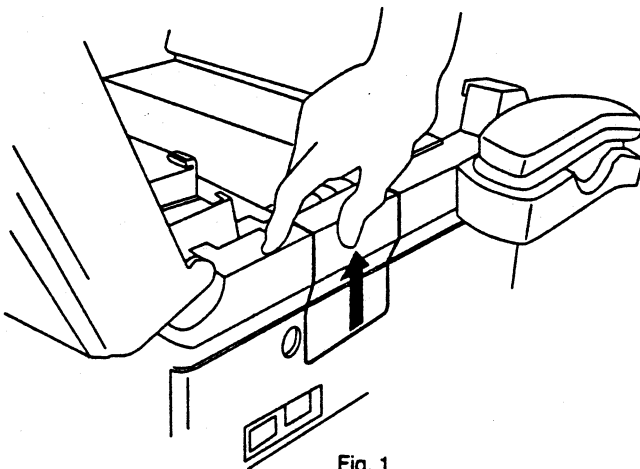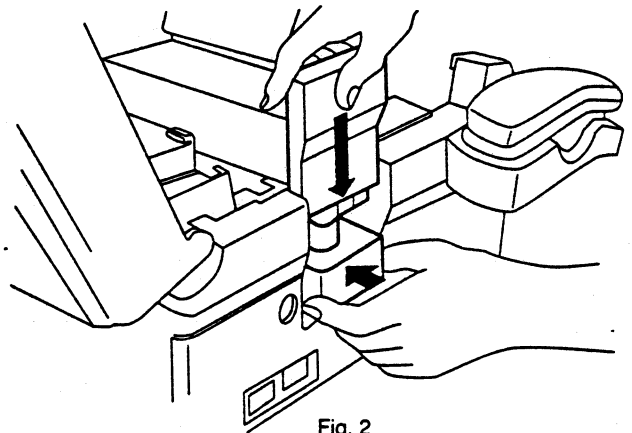
Fig. 1   Fig. 2

Note: Do not reuse toner from the toner waste bottle.

Installing the Printer Drum

Your printer's photosensitive drum will provide about 12,000 impressions. To install the drum:

1. Remove the drum from the shipping box and remove its protective covering.

2. Hold the drum by the orange handle. Slide open the drum cover until its edge locks into place just below the handle. (Fig. 1) **Do not touch the green area on the drum or allow it to touch other objects that may scratch its surface.**
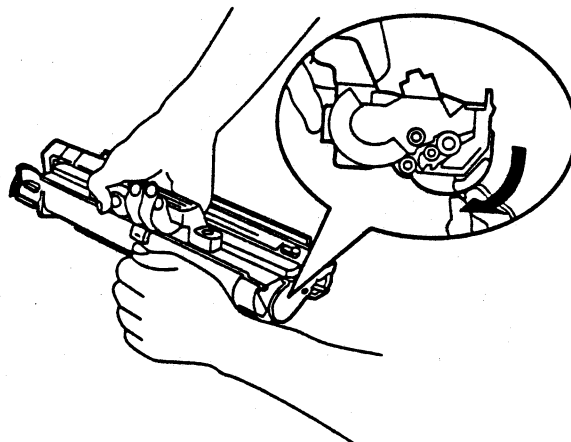
Fig. 1

3. Insert the pegs on either side of the drum into the notches indicated by the blue arrows. The drum should be positioned so the guide in front of the left-hand peg fits into the space provided. (Fig. 2) Press down on the drum's handle to ensure the drum is securely in place.
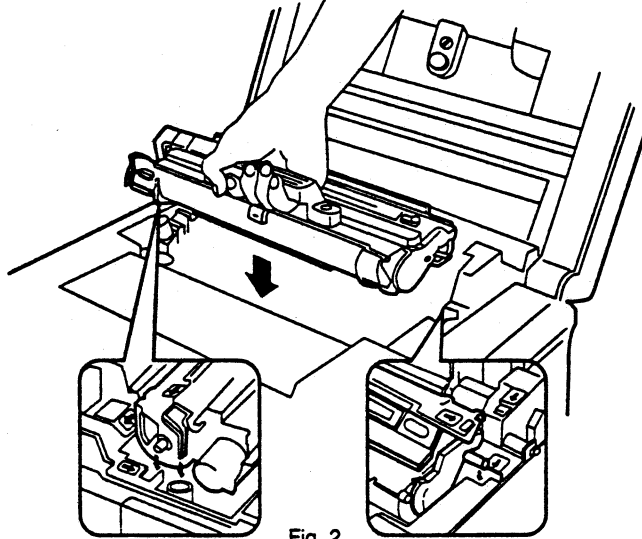
Fig. 2
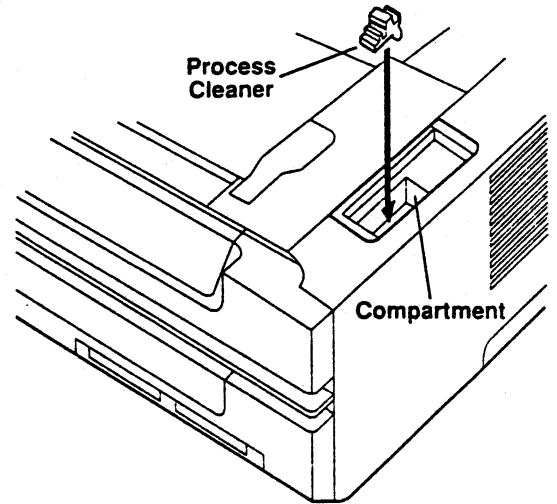
Fig. 3

4. Store the process cleaner in the compartment on the right side of the printing area. (Fig. 3) The process cleaner will be used to clean printer components in the event of poor copy quality. For information on the process cleaner and other cleaning tools, see the Maintenance section.

5. Close the top cover of your fax.

Your printer component installation is complete. To test the printer's operation, make a copy.

Note: The drum will rotate for about 30 seconds after it has been installed. At first, the drum will sound louder than normal. After the first 10 pages are printed, the sound of the drum operation should return to normal.

Make a Test Copy

Always use regular-weight (20 pound) copier paper in your fax.

1. Turn the power to your fax on. Allow the fax to warm up for about 30 seconds.

2. Place your document face down into the machine's document feeder.

3. Press **Mode/Select** to choose the copy resolution. Press **Original/Cancel** to compensate for a dark or light original.

4. Then press **Copy**.

You can add pages face down into the feeder as the fax copies your document. Never place more than 30 pages in the feeder at one time.

Notes: Your fax will produce copies at 94 percent of the original size. (See page 46.) Your fax cannot respond to incoming telephone calls while being used as a copier.

If your copies are too light or too dark, adjust the print density knob on the left of the machine until the desired print density is achieved.

If you are installing your printer components for the first time, go directly to page 25 to prepare your machine's telephone setup.

Replacing Toner and Drum Accessories

Proper care and prompt replacement of components will help ensure long life and dependable performance from your fax. Your unit will alert you with an LCD message when it's time to replace your toner unit and drum components.

Please note: The drum and toner components are user-replaceable supply items which are not protected under warranty. Call your Murata dealer for information on ordering these parts.

Tracking Fax Use

The Print Counter setting on your fax allows you to keep track of the number of documents transmitted, scanned, copied and received by your fax. This reading will appear on your fax's transmit and receive Activity Journals, and helps you track fax use. The fax keeps count of documents transmitted, copied and received since the last Clear Memory command. See page 95 of Software Switches for information on activating this setting.

Checking the Toner Indicator

A toner indicator on the left side of your toner unit keeps track of the number of cartridges used by your toner unit, and it alerts you when it's time to order a replacement toner unit. To check the toner level:

1. Push the top cover release to open the top cover.
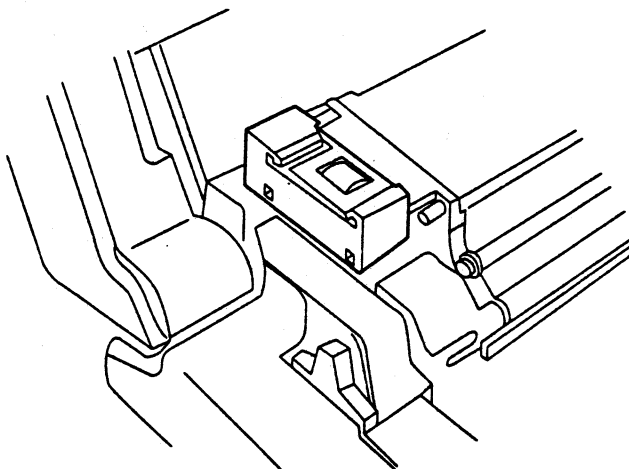
2. Check the indicator window on the left side of the toner unit.
   One of the following messages will appear in the indicator window:

Message	Explanation
3	Your toner unit is new and contains no toner.
2	You have used one toner cartridge.
1	Your unit will handle about 4,000-5,000 more copies.
Red bar	Your toner unit will yield several more copies; however, it's time to order a new Toner Set. **Do not add a toner cartridge when a red bar appears in the toner indicator.** Call your Murata dealer for information on ordering a new Toner Set.

Replacing the Toner Unit

The following LCD will alert you when it's time to check your toner indicator window:

> Please add toner

Replace the toner unit only if a red bar appears in the indicator window. (See "Checking the Toner Indicator" for information.) To replace the toner unit:

1. Open your fax. Hold the orange and black grips and lift up the used toner unit. Discard the used toner unit. Clean the toner unit housing using a clean paper towel.

2. Install the new toner unit and repeat the toner installation process discussed in the section "Installing Printer Components" (see page 12). This process includes supplying toner, changing the waste toner bottle and replacing the fuser cleaner.
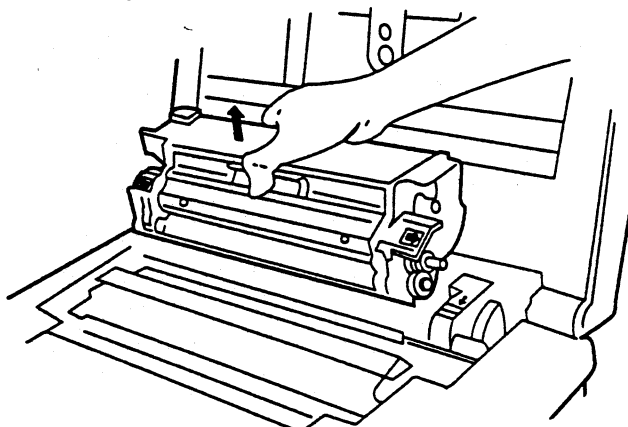
Replenishing your Toner Supply

An LCD message will alert you when it's time to add toner to your toner unit:

> Please add toner

To add toner, open your fax machine's top cover, then follow the instructions in the section titled "Supplying Toner" (see page 15). **When adding toner, add only one cartridge: Never add more than one toner cartridge at any time.**

Your toner unit is shipped with three toner cartridges. The first toner cartridge is used to coat the toner roller and provides toner for about 2,000 pages. The two remaining toner cartridges included in your kit will provide toner for about 3,500 pages each.

Note: Please use toner cartridges which are approved for use in this machine.

Replacing the Fuser Cleaner

Replace the fuser cleaner each time you replace the toner unit. When replacing the fuser cleaner, avoid touching any part of the unit except the fuser cleaner handle and fuser unit cover. The fuser cleaner operates at very high temperatures.
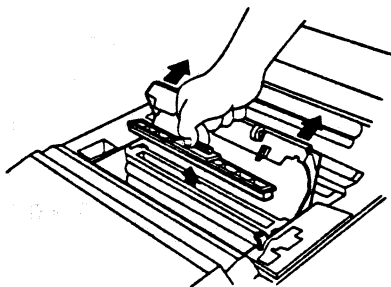
Open the top cover to your unit, then open the felt-covered fuser cleaner cover. Remove the used fuser cleaner as shown, then discard. Then see page 16 for instructions on installing a new fuser cleaner.

Replacing the Waste Toner Bottle

Replace the waste toner bottle when you replace the toner unit. **Note:** Do not reuse toner from the toner waste bottle. To replace the waste toner bottle:

1. Press the top cover release to open the top cover, then pull up the side cover.

2. Remove the used waste toner bottle. To remove the bottle, press down and pull in one motion. Discard the used bottle.

3. Clean the waste toner bottle compartment using a clean paper towel.

4. Slide a new waste toner bottle into place.
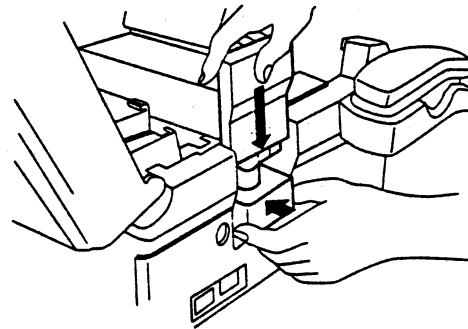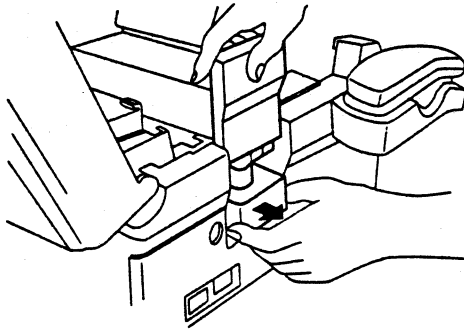
Replacing the Drum

Your fax will alert you with a printed message and the following LCD message when your drum has 300 copies remaining.

```
FAX READY
Prepare to replace drum
```

The same message will appear when your drum has 200 copies remaining, and again when your drum has 100 copies remaining. The following LCD message will appear when it's time to replace your printer drum :

```
FAX READY
Please replace drum
```

To replace the printer drum:

1. Open up your fax. Pull up on the orange handle to remove the drum. Be careful not to stain your clothing with toner. Discard the used drum.

2. Clean the drum housing using a clean paper towel.

3. Install the new drum as described in the section "Installing the Printer Drum" (see page 17).
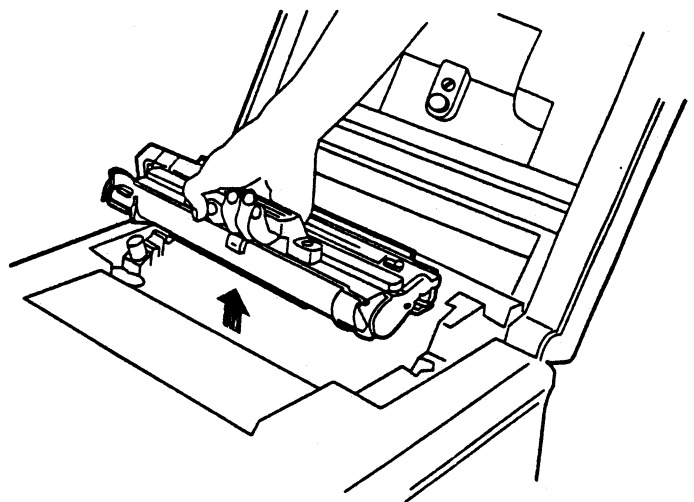
Note: A new drum will rotate for about 30 seconds immediately after you've installed it and closed the top cover. The rotation of the drum is normal operation. A new drum will sound different than normal when it prints the first 10 sheets; after that, volume of the drum operation will stabilize.

Replacing the Ozone Filter

The ozone filter is located on the underside of your machine's top cover. You should replace this filter after every 30,000 pages. Call your Murata dealer for information on ordering the replacement ozone filter.

To remove the ozone filter:

1. Open the top cover of your fax.

2. Look on the underside of the top cover. You should see a small rectangular door on the left side.

3. Push the tab on the top side of the rectangular gray piece and pull out the filter. Discard the used filter.

4. Click the replacement filter into place.

Before You Call...

Q: How do I install my fax so it can work with my answering machine?

A: See page 27 for information on connecting your answering machine to the Phone 2 jack.

Q: I tried to install my printer drum, but I feel like I'm forcing it into the slot. What am I doing wrong?

A: You probably have not opened the drum cover. See page 17 for instructions on how to open the drum cover. When opening the drum cover, be careful not to scratch the drum's surface.

Q: I inserted the contents of my toner cartridge and a "2" appeared in the window on the left. What does this number mean?

A: See page 19 for information on the toner indicator window.

Q: I followed the instructions for installing paper in my fax machine's paper cassette tray, but I keep getting paper jams. What's the problem?

A: Perhaps you have installed paper that's too thick or too thin. Your fax accepts regular copier paper. See page 11 for more information on the required paper for your fax.

Q: How do I know my toner unit and drum are installed correctly?

A: Make sure to carefully follow the instructions on installation beginning on page 12.

Telephone Features

Ringer
Volume

20 pps Rotary
10 pps Rotary
Tone
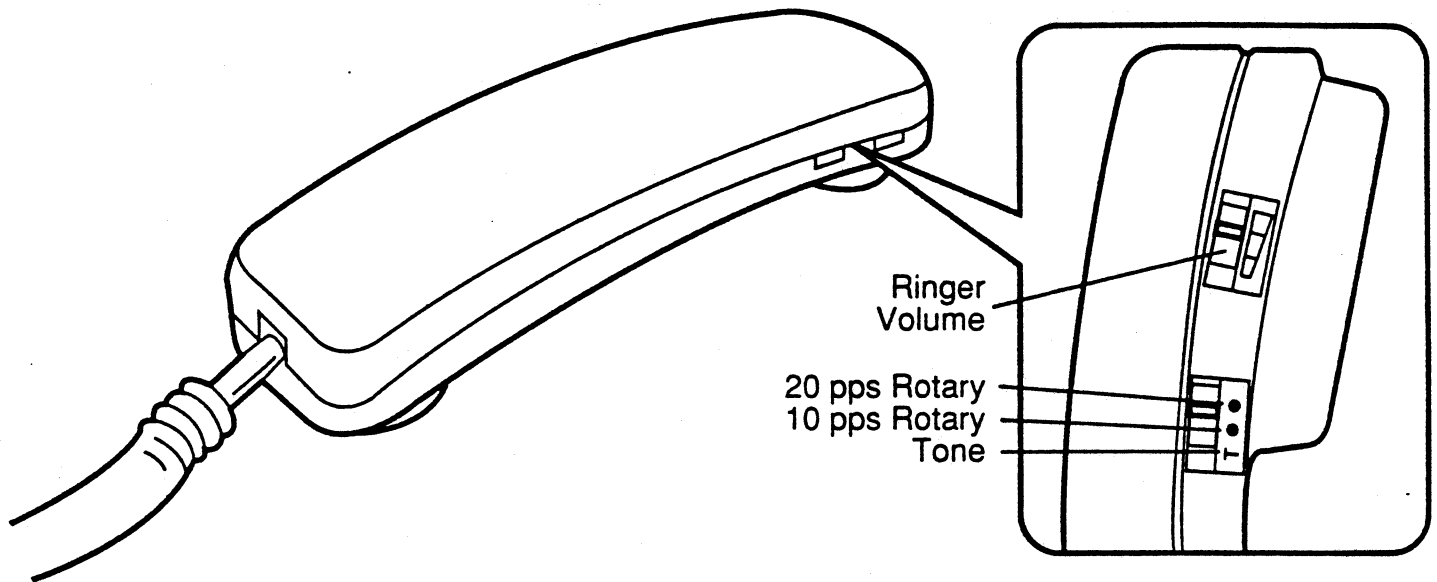
Your fax and telephone handset are set initially for use on touch-tone telephone systems rather than rotary. If your telephone network requires rotary dialing signals, be sure to select rotary dialing when you enter the "Set Phone Line Type" setting in the user settings (see page 29).

A small switch on the side of the fax machine's telephone handset controls the dialing signals produced by the handset keypad. The handset setting controls the dialing signals made by the handset's keypad: It does not change the dialing signals produced by the fax's autodialer or numeric keypad.

Refer to the diagram to make sure your handset will provide the dialing signals required by your telephone system.

These other telephone features are built into your fax:

Hold—Just press **Hold** to place a call on hold. Your fax includes an optional melody (see page 30) you can use to let your caller know the line is on hold.

Your fax will beep several times at one-minute intervals to remind you your caller is waiting. The Hold LED will also light while a call is on hold. If you have not picked up the call after five minutes, your fax will disconnect the call automatically.

To return to a call placed on hold, just pick up your machine's built-in handset or a telephone connected to the fax machine's "Phone 2" jack.

Monitor/Call—For hands-free voice or fax dialing, press **Monitor/Call** to get a dial tone while the fax machine's handset remains down. Then enter a telephone number using the numeric keypad, a one-touch key or **Speed Dialer** and a two-digit speed-dial number. For voice dialing, pick up the handset when the call is answered. For fax dialing, make sure there is a document in the fax machine's feeder and press **Start** when the remote fax answers.

Redial—Press **Redial** to redial the last number attempted using the numeric keypad, a one-touch key or a speed-dial number. The **Redial** button cannot redial numbers called using the fax machine's handset or a telephone connected to the "Phone 2" jack.

Telephone Information and Setup

Properly connecting your fax to your home or office telephone system is probably the most critical part of installing your new F-75. Take a few minutes to review the most important aspect of all in installation—the way your fax connects to your telephone or answering machine.

Your Fax, Fax Standards, and the Telephone System

Your fax works on ordinary telephone lines, so it's easy to understand fax operation if you compare it to the way a regular telephone works. Having a fax, in fact, is a lot like having a telephone with bonus features.

All fax standards are closely regulated by the CCITT, an international regulatory agency of the United Nations. These standards ensure the compatibility of your fax machine with the millions of other Group 3 and Group 2 units worldwide, but they also impose a few limits on the way your fax can be used with other telephones or answering machines.

The concept of how a fax works is simple:

When a transmitting fax scans in a document, it examines the picture content and converts the lines of information into a binary code of zeros and ones. The fax then compresses this information so it can be sent rapidly over the telephone line. In this regard, the only difference between a fax call and a regular telephone call is the content of the transmission: A fax transmission consists of digital information, while a regular telephone call transmits analog information—your voice.

A fax call will make your telephone ring in exactly the same way a voice call would. In fact, there is no way to tell if an incoming call is from a fax or from a person until you or your fax machine answer the line.

During transmission, the transmitting fax sends out very specific calling tones over the telephone line. These tones, which sound like a wavering, piercing electronic whistle, identify the call to other faxes as an attempted transmission. While these tones wouldn't make much sense to you if you heard them, they are the fax equivalent of making a voice call and identifying yourself: "Hello, this is Joe."

The answering fax machine responds to these signals using special receiving tones, which are its way of responding to the other unit's "greeting." This acknowledgement—just like greetings exchanged between you and your friends—is called "handshaking."

Receive Options

Fax machines offer two basic ways to answer incoming telephone calls: You can instruct your fax to ignore calls so you can answer them *manually*, or you can instruct your fax to answer calls *automatically*.

Your F-75 even offers a half-way point between these options, allowing you to attach a second telephone or answering machine without interrupting your fax machine's operation.

Press the **Receive Mode** key to select from the four receive options explained below. Your LCD will show each option in succession: Tel Ready, Fax Ready, Tel/Fax Ready and Ans/Fax Ready.

Tel Ready

```
Tel/Ready
Oct. 11, 90    08:00
```

- Nothing attached to fax.

- Your fax will serve double duty as fax and business telephone.

- You will answer each call manually.

When your fax is set to "Tel Ready," you can answer your fax manually any time it is ringing by picking up the fax handset.

If the call is from a person, talk as you would normally. If the call is from a fax machine, you will hear the characteristic high-pitched fax tones. When you hear these tones, press your machine's **Start** button to return the remote unit's "greeting". Then hang up, and reception will begin.

Your fax's manual reception option is ideal if you have one telephone line that must serve double duty for fax and business use. That way, you can answer all incoming calls, speaking normally to your voice callers and "greeting" remote fax machines by pressing **Start**.

This option is called "Tel Ready" on your fax machine's LCD, because you answer all calls, fax and voice, using the telephone handset—just the same way you would answer a regular telephone.

Fax Ready

```
Fax Ready
Oct. 11, 90    08:00
```

- Nothing attached to fax.

- Dedicated phone line for fax.

- Fax answers automatically.

When your fax is set to "Fax Ready", it assumes the responsibility of answering all calls. The fax will answer calls after a specified number of rings (which you can control), exchange the standard fax "greeting" with the transmitting unit and then attempt reception.

You can choose to answer an incoming call manually before the fax responds. If you do, your options are the same as for manual reception: Talk to your callers, but press **Start** if you hear fax transmission tones.

Use the Fax Ready setting when you have a dedicated line for the fax and receive your voice calls on a separate line. Because the fax answers automatically, your unit's voice prompt is not played and any voice callers will hear your fax machine's receiving tones. This option is called "Fax Ready" on your the unit's LCD because the machine is "ready" for fax calls only.

Tel/Fax Ready

```
Tel/Fax Ready
Oct. 11, 90    08:00
```

- Second telephone attached to fax.

- Office shares fax line with business phone.

- Fax answers automatically.

You can connect a second telephone to your fax machine's Phone 2 jack for added convenience. A second telephone allows several reception options.

First, you can choose to do nothing when your fax rings and let the fax answer all calls automatically. If the call is from a remote fax machine, your fax will receive the message automatically.

Any voice callers will hear the following voice prompt, informing them they've reached a fax machine.

> *Hello. If you wish to send a fax, transmit now. If not, check the number and dial again. Thank you.*

This prompt is a pre-recorded part of the machine's software and is available in English or Spanish. (See Voice Prompt in the User Settings section for more information.)

Tel/Fax Ready, continued

Second, some people use the second phone option because they prefer to answer their fax using a conventional telephone handset. When you connect a second telephone to the Phone 2 jack and answer incoming calls before the fax responds, your options are the same as for manual reception: Talk to your callers, but press **Start** if you hear fax transmission tones.

What if the telephone connected to the Phone 2 jack is on a long telephone cord—even in another room?

The switch-to-fax feature lets you transfer these fax calls back to the fax, but remember that the second telephone must be physically attached to the fax machine's Phone 2 jack. (See the Switch-to-Fax section for more information.)

This feature is called Tel/Fax Ready on your fax machine's LCD because a telephone is used alongside the fax.

Ans/Fax Ready

```
Ans/Fax Ready
Oct. 11, 90   08:00
```

• Answering machine connected to fax.

• Fax and answering device share phone line.

• Answering device answers calls automatically after 1 or 2 rings.

• Your fax listens for "greeting" from other units.

You can connect an answering device to your fax machine's Phone 2 port for the ultimate in fax/telephone convenience. With a few precautions to accommodate the standards every fax must adhere to, your answering machine and fax can work perfectly side by side.

When fax machines dial automatically—like when you use a one-touch key for transmission or program a delayed command—they use an internal clock to time and control their communication. The transmitting machines wait a fixed period of time after dialing to hear the receiving "greeting" from your fax. If they don't hear the proper reception tones within this limited period, they usually hang up and dial again minutes later.

If a telephone answering machine is used on the same line as your fax, the whole transmission process for a remote unit—dialing your fax, ringing and waiting for your answering machine's outgoing message—can take 40 seconds or more. This exceeds the time limit set by the CCITT and would cause the transmitting fax to hang up.

To ensure smooth operation of your fax and answering machine, follow these guidelines:

1. First, make sure your answering machine's telephone line is connected to your fax machine's "Phone 2" jack. The answering machine's power cord should be plugged into an electrical outlet.

2. Make sure "Ans./Fax Ready" appears on your fax machine's display.

3. Set your answering machine to answer calls after one or two rings. Consult your answering machine's operating manual for instructions.

4. Create an outgoing message for your answering machine that is less than 10 seconds long. (For ideas on modifying your message, see "Modifying your Answering Machine Message" later in this section.)

When you choose this reception option, incoming calls will be answered by your answering machine, since it should be set to respond after one or two rings. While your outgoing message is played, your fax will listen quietly on the line. Callers making voice calls will not know the fax is there.

If your fax detects the standard fax transmission tones, however, it will disconnect your answering machine and begin reception.

Modifying Your Outgoing Message

Here is a suggested outgoing message for your answering machine that you can modify to suit your own needs:

> *Hello. You have reached (your business name or telephone number). We can't come to the phone now, but this line has been answered by a fax and an answering machine. If you would like to send a fax, press Start to transmit. If you would like to leave a message, wait for the beep. Thank you.*

Your callers can even leave both a voice and fax message on the same telephone call:

Modify your answering machine message to explain that callers can leave a voice message on your answering machine, then press **Start** to begin their transmission. Your fax will detect the switch from voice to fax, and come on the line to print the message.

Silent Detect

Under normal circumstances, your fax will seize the phone line when it hears fax tones from a remote unit. You can change your machine's settings to suit a few particular fax-reception needs, however.

A few non-standard fax machines on the market do not emit calling tones when they transmit. Your fax can use a "silent detect" option to accommodate these machines. Unless you select and activate the silent-detect feature, it will not affect your fax communication.

When the silent-detect feature is enabled, your fax listens to all incoming calls for one minute. If your fax detects a period of silence of a specific length, determined by you, it will disconnect the telephone handset or answering machine and attempt fax reception. In other words, when your fax detects this period of silence during the first minute of the call, it assumes a "silent" machine is on the line, and your fax will emit receiving tones.

You can set your machine's silent-detect sensor to monitor for a period of silence from 1 to 15 seconds. The sensor is initially set at 00, which turns the feature off.

Remember that when you activate this feature your fax will monitor for a period of silence during the first minute of *every* call. When this feature is active, try to avoid putting your caller on hold or setting the handset down during the first minute, since the resulting silence could cause your fax to attempt reception.

Also remember that this feature is designed to accommodate a very few non-standard fax machines. Unless you frequently communicate with such units, you can ignore this setting. To activate the "silent detect" feature,

1. Press **Program, 0, 3, Confirm/Enter.**

```
Silent Time Set
(0-15)          00
```

2. Enter the amount of time desired. You can enter any number between 01 and 15 seconds.

```
Silent Time Set
(0-15)          06
```

3. Press **Confirm/Enter.**

```
Silent Time Set
  **Completed**
```
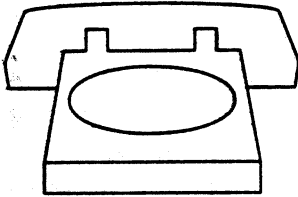
Before You Call...

Q: I selected Receive Confirmation Report when I set my communication result; however, my fax prints out Transmit Confirmation Reports. What happened?

A: Your machine will print out an RCR only if it is communicating with another Murata-manufactured machine. Your machine prints a TCR when it communicates with a non-Murata fax. See page 33 for more information.

Q: When I unplug my machine, will I lose programmed information like my TTI, autodialer numbers and time and date?

A: No. The battery for your fax protects user settings for an extended period of time if power fails or you decide to move your fax. Remember, however, that battery back-up does not extend to documents and delayed commands in memory, only to user settings.

User Settings

Most user settings for your fax can be entered either when you install your fax or later, after you find a need for a particular feature. You can enter the settings below in any order you wish, and ignore those that do not pertain to your fax use.

Important: Before you begin, make sure you have read the section "Telephone Information and Setup." You should fully understand the information presented in this section before you continue.

Selecting the Language of Operation

Your fax can display LCD screens, reports and journals in either English or Spanish. The voice prompt (see page 50) is also pre-recorded in English and Spanish.

Your fax is initially set for English-language operation. To select Spanish-language operation, press **Program** followed by the pound key (#). Then press **Stop**. Repeat this process to return LCD screens, reports and the voice prompt to English.

Set Phone Line Type

Your fax works well on either tone or rotary phone lines. Your fax is set initially to use tone dialing signals. To change to rotary dialing signals:

1. Press **Program, 0, 9, Confirm/Enter.**

```
1. Set Phone Line Type
01-24    Enter/Select
```

2. Press **Confirm/Enter.**

```
Tone Line
            Enter/Select
```

3. Press **Mode/Select.**

```
Rotary Line
            Enter/Select
```

4. Press **Confirm/Enter.**

```
Set Phone Type
** Completed **
```

To enter information for your fax:

In most sections of this book you will be instructed to enter information for fax commands and user settings. An example of how to enter (or program) information or commands follows:

To Print the User Settings

1. Press **Program, 0, 9, Confirm/Enter, 1, 7.**

What it means:

Program = Press Program key.

0, 9 = Enter using the machine's numeric keypad.

Confirm/Enter = Press Confirm/Enter key.

1, 7 = Enter using the machine's numeric keypad.

Second Telephone Hold

Your fax allows connection of a second telephone or answering device for added versatility. You may choose to answer calls using the handset of the second phone. If you would like to be able to put your callers on hold when talking on the second phone, follow the steps below. (The initial setting for the second telephone hold function is off.)

To turn the second telephone hold feature on:

1. Press **Program, 0, 9, Confirm/Enter, 0, 2.**

```
2. 2nd Telephone Hold
01-24    Enter/Select
```

2. Press **Confirm/Enter.**

```
2nd Tel. Hold: OFF
          Enter/Select
```

3. Press **Mode/Select** to turn the hold feature on.

```
2nd Tel. Hold: ON
          Enter/Select
```

4. Press **Confirm/Enter.**

```
2nd Tel. Hold
  ** Completed **
```

Set Hold Melody

Your fax includes an optional melody you can use to let callers know they are on hold. The fax is set initially not to play this hold melody.

Use the setting below if you want your callers to hear "When the Saints Go Marching In" while they are on hold.

1. Press **Program, 0, 9, Confirm/Enter, 0, 3.**

```
3. Set Hold Melody
01-24    Enter/Select
```

2. Press **Confirm/Enter.**

3. Press **Mode/Select** to turn the melody on.

```
Hold Melody:  On
          Enter/Select
```

4. Press **Confirm/Enter.**

```
Set Hold Melody
** Completed **
```

Set Passcode

The optional passcode in your fax can be used to protect documents set for polling, to poll documents from a Murata fax machine with a passcode in place and to operate in a closed network with other Murata fax machines.

The closed network option gives you a way to block "junk fax", or unwanted transmissions from unknown fax machines. When you enter a passcode as shown below and select the closed network option (see page 39), you instruct your fax to hang up on any facsimile machine that calls and fails to present the proper code.

Use the passcode when communicating with Murata-manufactured fax machines only. Fax machines from other manufacturers—even those that offer their own protection codes—aren't compatible with your machine's passcode.

To cancel the passcode, return the code to 0000. This setting allows any fax from any manufacturer to send to or poll from your unit.

1. To enter a passcode, press **Program, 0, 9, Confirm/Enter, 0, 4.**

```
4. Set Passcode
01-24   Enter/Select
```

2. Press **Confirm/Enter.**

```
Set Passcode
Passcode:          0000
```

3. Use the numeric keypad to enter your passcode.

```
Set Passcode
Passcode:          1234
```

4. Then press **Confirm/Enter.**

Set Auto Receive Time

Use the Auto Receive setting below to select specific hours for your fax to switch to and from automatic answer mode. This setting switches your fax from the "Tel Ready" manual answer mode to the "Fax Ready" automatic answer mode at the times you choose (see page 26).

Do not use this setting if your fax is in the "Ans/Fax Ready" mode.

1. To enter an Auto Receive Time setting, press **Program, 0, 9, Confirm/Enter, 0, 5.**

```
5. Set Auto Rx Time
01-24   Enter/Select
```

2. Press **Confirm/Enter.**

```
Set Auto Rx Time
Start Time:   00:00
```

3. Enter the hour you want automatic reception to begin. Your fax tracks time in 24-hour or nautical format, where, for example, 11 a.m. is shown as 11:00 and 3 p.m. is shown as 15:00.

```
Set Auto Rx Time
Start Time:    17:00
```

4. Press **Confirm/Enter**. Then enter the minute you want automatic reception to begin.

```
Set Auto Rx Time
Start Time:    17:31
```

5. Press **Confirm/Enter**.

```
Set Auto Rx Time
End Time:      00:00
```

6. Enter the hour you want automatic reception to end.

```
Set Auto Rx Time
End Time:      07:00
```

7. Press **Confirm/Enter**. Then enter the minute you want automatic reception to end.

```
Set Auto Rx Time
End Time:      07:59
```

8. Press **Confirm/Enter**.

```
Set Auto Rx Time
** Completed **
```

To cancel this setting so changes in your fax machine's Auto Receive status are made only by using the Receive Mode key, return the start and end settings to 00:00.

Set Number of Rings

Use this setting to select the number of times your fax will ring before it responds to an incoming call. You can select any number of rings between 2 and 6. Your unit is set initially to respond after two rings.

1. To set the number of rings, press **Program, 0, 9, Confirm/Enter, 0, 6.**

```
6. Set Number Rings
01-24   Enter/Select
```

2. Press **Confirm/Enter**.

```
Set Number Rings
(2-6)          2
```

3. Enter the desired number of rings. Choose among numbers 2 through 6.

```
Set Number  Rings:  5
        Enter/Select
```

4. Then press **Confirm/Enter**.

```
Set Number Rings
** Completed **
```

Set Communication Result

Your fax offers two kinds of communication reports after a transmission. These reports verify that your document was sent, and are especially useful when you use delayed commands to send documents after hours.

A Transmit Confirmation Report is a signal from your fax that the document you set for transmission was sent to the location shown on the report. A TCR is available for any transmission.

A Receive Confirmation Report is available during transmission to other Murata-manufactured units. An RCR is a message sent back from the remote unit, signalling that the remote fax received and correctly printed the message you sent.

TCRs and RCRs list the transmitting and receiving unit, date, time, number of pages sent and result. The name or telephone number shown in the "Receiver" field may not be the one you entered in your autodialer: The information that appears in this field comes from the remote unit during fax communication (see page 99).

If you request an RCR during a transmission with a non-Murata unit, a TCR will be printed automatically instead.

1. To select the communication report, press **Program, 0, 9, Confirm/Enter, 0, 7.**

```
7. Set  Comm. Result
01-24    Enter/Select
```

2. Press **Confirm/Enter.**

```
TCR
        Enter/Select
```

3. Press **Mode/Select** to choose the type of report you want after each transmission. Then press **Confirm/Enter.**

```
Automatic Print:    Off
        Enter/Select
```

4. Press **Mode/Select** to turn the automatic print on. This will request a communication report after each transmission.

```
Automatic Print:    On
        Enter/Select
```

5. Then press **Confirm/Enter**.

```
Select Comm. Result
** Completed **
```

Set Scanner Width

When you transmit wide documents, your fax will automatically reduce the size of the pages sent to accommodate the printing capability of the receiving fax.

If you want to transmit images from wide documents without this automatic reduction, adjust the scanning width of your fax. Your fax is set initially to scan to the B4 (9.9-inch) document width. You can adjust this to the A4 (8.5-inch) width to transmit portions of a large page without reduction.

When you select the narrower width, your fax will ignore any image outside the active scanning area. If you select the A4 scanning width and insert an 11-inch-wide document, for example, your fax will scan the center 8.5 inches and transmit it unreduced. This setting will leave 1.25 inches unscanned on each side of the page.

To select a 10.1-inch scan width, follow the instructions on page 98.

1. To set the scanner width, press **Program, 0, 9, Confirm/Enter, 0, 8**.

```
8. Set Scanner Width
01-24    Enter/Select
```

2. Press **Confirm/Enter**.

```
Scanning Size:      B4
          Enter/Select
```

3. Press **Mode/Select** to choose the scanning width you need.

```
Scanning Size:      A4
          Enter/Select
```

4. Then press **Confirm/Enter**.

```
Set Scanner Width
** Completed **
```

Repeat these steps to return the scanner to B4 after your transmission, so subsequent large documents aren't accidentally cut down by the narrower setting.

Set Primary Resolution

Your fax offers several transmission resolutions, so every document you send arrives looking great. You can select the resolution that is right for each document just before transmission by pressing **Mode/Select**.

If most of your transmissions require the fine transmission mode, use the Primary Mode setting below to save a step in all future transmissions: When you select fine as the primary mode, your fax will send all documents at this higher resolution unless you specifically change it before transmission.

1. To set the primary mode, press **Program**, **0**, **9**, **Confirm/Enter**, **0**, **9**.

```
9. Set Primary Mode
01-24   Enter/Select
```

2. Press **Confirm/Enter**.

```
Primary Mode: Norm
        Enter/Select
```

3. Press **Mode/Select** to change the setting to fine.

```
Primary Mode: Fine
        Enter/Select
```

4. Then press **Confirm/Enter**.

```
Set Primary Mode:
** Completed **
```

Set Original Contrast

Along with an adjustable primary resolution (above), your fax offers a primary contrast setting. If most of the documents you send require the dark or light contrast adjustment, use the setting below to change the primary contrast setting.

1. To choose the primary contrast setting, press **Program**, **0**, **9**, **Confirm/Enter**, **1**, **0**.

```
10. Set  Contrast
01-24   Enter/Select
```

2. Press **Confirm/Enter**.

```
Original     Norm
        Enter/Select
```

3. Press **Mode/Select** to select the contrast setting you need.

```
Original     Light
        Enter/Select
```

4. Then press **Confirm/Enter**.

Set Redial Attempts

Your fax will automatically redial a busy fax number anytime you attempt transmission using a one-touch key, speed-dial number, programmable one-touch key or a telephone number entered through the fax's numeric keypad.

Use this setting to determine how many times your fax should redial the busy number before sounding its alarm to alert you of the unsuccessful transmission.

1. To set the number of attempts, press **Program**, **0, 9**, **Confirm/Enter**, **1, 1**.

```
11. Set # of Redials
01-24   Enter/Select
```

2. Press **Confirm/Enter**.

```
Set # of Redials
(2-5)           2
```

3. Enter the number of redial attempts desired. Choose among 2, 3, 4 or 5.

```
Set # of Redials
(2-5)           4
```

4. Then press **Confirm/Enter.**

Set Redial Interval

When your fax encounters a busy signal, it waits several minutes before redialing. Use this setting to select the interval between redial attempts.

1. To set the redial interval, press **Program**, **0, 9**, **Confirm/Enter**, **1, 2**.

```
12. Set Redial Inter.
01-24   Enter/Select
```

2. Press **Confirm/Enter.**

```
Set Redial Interval
(3-5)           3
```

3. Enter the desired redial interval. Enter 3-, 4- or 5-minute intervals.

```
Set Redial Interval
(3-5)           5
```

4. Then press **Confirm/Enter.**

Journal Print On/Off

The Activity Journal displays information on your 25 most recent transmissions and receptions. You can request an Activity Journal at any time (see page 99). Use this setting to instruct your fax to print a journal automatically after every 25 transactions.

1. To select the journal print setting, press **Program**, **0, 9**, **Confirm/Enter**, **1, 3**.

```
13. Journal On/Off
01-24   Enter/Select
```

2. Press **Confirm/Enter**.

```
Automatic Print:      Off
          Enter/Select
```

3. Press **Mode/Select** change the print setting.

```
Automatic Print:      On
          Enter/Select
```

4. Then press **Confirm/Enter**.

Remote Diagnostics

Your fax includes special software that allows Murata's trained service technicians to test your fax by computer over the telephone.

To take advantage of Murata's remote diagnostic service when you encounter a problem, call the Murata Customer Support Center at 1-800-347-3294.

1. To change the diagnostic setting, press **Program**, **0, 9**, **Confirm/Enter**, **1, 4**.

```
14. Remote Diagnostic
01-24   Enter/Select
```

2. Press **Confirm/Enter**.

```
Remote Diagnostic   On
          Enter/Select
```

3. Press **Mode/Select** to change the diagnostic setting.

```
Remote Diagnostic  Off
          Enter/Select
```

4. Then press **Confirm/Enter**.

Set Date and Time

The clock in your fax is protected from power failures for up to several days by a rechargeable internal battery. The LCD displays time in 24-hour format.

1. To set the clock, press **Program**, **0, 9**, **Confirm/Enter**, **1, 5**.

```
15. Set Date and Time
01-24   Enter/Select
```

2. Press **Confirm/Enter**.

```
Enter Year
  '01 01/01 01:01
```

3. Use the numeric keypad to enter the last two digits of the current year.

```
Enter Year
   '90 01/01    01:01
```

4. Press **Confirm/Enter**. Then enter the number of the month.

```
Enter Month
   '90 10/01    01:01
```

5. Press **Confirm/Enter**. Enter the day.

```
Enter Date
   '90 10/11    01:01
```

6. Press **Confirm/Enter**. Now enter the hour in 24-hour format.

```
Enter  Hour
   '90 10/11    09:01
```

7. Press **Confirm/Enter**. Enter the minute.

```
Enter Minute
   '90 10/11    09:30
```

8. Press **Confirm/Enter**.

Set Dialing Pause

The **Pause** key on your fax lets you insert dialing pauses into numbers stored in your autodialer (see page 74). These pauses may be needed when calling on systems that require "9" to reach an outside line, on branch systems or when calling overseas.

1. To set the number of seconds your fax should wait when it encounters a dial pause, press **Program, 0, 9, Confirm/Enter, 1, 6**.

```
16. Set Dialing Pause
01-24   Enter/Select
```

2. Press **Confirm/Enter**.

```
Set Dialing Pause
Pause Duration:      05
```

3. Use the numeric keypad to enter the number of seconds delay desired. You can select a pause of from 05 to 99 seconds.

```
Set Dialing Pause
Pause Duration:      10
```

4. Press **Confirm/Enter**.

```
Set Dialing Pause
** Completed **
```

Print User Settings

Use this command to print a list of your user settings. The printed report lists the settings or status of: Transmit Terminal Identifier, Subscriber ID, passcode, dialing pause, redial attempts, redial interval, auto receive time, phone line setting, number of rings, communication result, scan width, primary mode, original contrast, automatic journal print, remote diagnostics, closed network and grayscale.

1. To print the user settings, press **Program, 0, 9, Confirm/Enter, 1, 7**.

```
17. Print User Settings
01-24   Copy/Select
```

2. Press **Copy** to begin the report.

Closed Network

You can close your fax to transmissions from unauthorized facsimile machines and eliminate "junk fax" with the closed network feature.

When you turn on the closed network, only Murata-manufactured fax machines presenting the proper passcode (see page 31) can access your fax for transmission or polling. All other facsimile machines will be disconnected before transmission.

1. To begin the closed network, press **Program, 0, 9, Confirm/Enter, 1, 8**.

```
18. Closed Network
01-24   Enter/Select
```

2. Press **Confirm/Enter**.

```
Closed Network          Off
          Enter/Select
```

3. Press **Mode/Select** to turn the network on.

```
Closed Network          On
          Enter/Select
```

4. Then press **Confirm/Enter**.

Set SecureMail Boxes

SecureMail is an exclusive Murata feature for your most confidential documents: SecureMail transmissions are sent to memory "mailboxes" in other Murata fax machines, where they are protected by an access code selected by the mail box holder. Your fax offers up to 10 SecureMail boxes.

When a SecureMail message is received, your fax will print a message alerting the intended recipient of its arrival. Your fax is set initially to store SecureMail documents for one day. If not retrieved within 24 hours, the message will be erased from memory automatically. You can instruct your fax to store a SecureMail message for up to 31 days. See pages 50 and 61 for more information on SecureMail communication.

1. To create a SecureMail box, press **Program, 0, 9, Confirm/Enter, 1, 9**.

```
19. Set SecureMail Bx
01-24   Enter/Select
```

2. Press **Confirm/Enter**.

```
┌─────────────────────────────────┐
│ 1. SecureMail Bx                │
│ 1-2      Enter/Select           │
│                                 │
└─────────────────────────────────┘
```

3. Press **Confirm/Enter**.

```
┌─────────────────────────────────┐
│ SecureMail Bx                   │
│ Mailbox Number:                 │
│                                 │
└─────────────────────────────────┘
```

4. Use the numeric keypad to enter the number, from 0 to 9, of the mail box you want to enter.

```
┌─────────────────────────────────┐
│ SecureMail Bx                   │
│ Mailbox Number:        1        │
│                                 │
└─────────────────────────────────┘
```

5. Press **Confirm/Enter**.

```
┌─────────────────────────────────┐
│ SecureMail Bx                   │
│ Your ID Number:     0000        │
│                                 │
└─────────────────────────────────┘
```

6. If you are entering this box information for the first time, press **Confirm/Enter** and go to step 7. If you are modifying this box, enter your current ID number and press **Confirm/Enter**.

7. Use the up, down, left and right arrow keys on the control pad to highlight the first character of the mail box name. See page 42 for a list of all characters available.

```
┌─────────────────────────────────┐
│ _ ABCDEFGHIJ. 00                │
│                                 │
│                                 │
└─────────────────────────────────┘
```

8. Press **Confirm/Enter** to enter the character.

```
┌─────────────────────────────────┐
│ _ ABCDEFGHIJ. 01                │
│ B                               │
│                                 │
└─────────────────────────────────┘
```

9. Continue using the arrow keys and **Confirm/Enter** to enter the mail box name. Enter up to eight characters.

```
┌─────────────────────────────────┐
│ _ abcdefghij. 08                │
│ B. Smith                        │
│                                 │
└─────────────────────────────────┘
```

10. When the name has been entered, press **Program**.

```
┌─────────────────────────────────┐
│ Change ID Number?               │
│          Select/Cancel          │
│                                 │
└─────────────────────────────────┘
```

11. If you were simply changing the name on an existing mail box, press **Mode/Select** to save the new name and return to the standby mode. If you were entering a new mail box or if you want to change the passcode on an existing box, go to step 12.

12. Press **Original/Cancel**.

```
Change ID Number?
  Your ID Number:       0000
```

13. Use the numeric keypad to enter your passcode. (Remember that you will not be able to print messages stored in this box if you forget your passcode.)

```
Change ID Number?
  Your ID Number:       1234
```

14. Press **Confirm/Enter**.

Print SecureMail List

This list shows each active SecureMail box and the name assigned to it. To assure the security of information stored in SecureMail boxes, this list does not show the passcodes needed to print documents stored in each box.

1. To print the SecureMail box list, press **Program**, **0, 9**, **Confirm/Enter**, **1, 9**.

```
19. Set SecureMail Bx
01-24    Enter/Select
```

2. Press **Confirm/Enter**.

```
19. Set SecureMail Bx
01-24    Enter/Select
```

3. Press **Mode/Select**.

```
1. Print Mailbox List
1-3      Copy/Select
```

4. Press **Copy** to print the list.

SecureMail Storage

The SecureMail documents you receive can be stored in SecureMail boxes for up to 31 days. This feature helps ensure you receive important secure documents. Here's a scenario: You're expecting an important document containing classified information, but you're about to leave town for a week-long seminar followed by a two-week vacation. How can you retain the document in your machine's memory for that length of time? Easy. Just set the SecureMail document storage time for 23 days. The day you return, you can be assured your document is waiting in your SecureMail box. This setting will apply to all SecureMail documents received, and can be changed according to your needs.

To set the storage time for SecureMail documents:

1. Press **Program, 0, 9, Confirm/Enter, 1, 9**.

```
19. Set SecureMail Bx
01-24    Enter/Select
```

2. Press **Confirm/Enter**.

```
19. Set SecureMail Bx
01-24    Enter/Select
```

3. Press **Mode/Select** two times.

```
1. SecureMail Storage
1-3      Enter/Select
```

4. Press **Confirm/Enter**.

```
SecureMail Storage
(1-31)           01
```

5. Enter the number of days you want your received SecureMail documents to remain in memory. When entering a number less than 10, be sure to enter two digits, e.g., 01, 06. Enter up to 31 days, if desired.

```
SecureMail Storage
(1-31)           15
```

6. Press **Confirm/Enter**.

Enter Your TTI

Your programmable Subscriber ID and Transmit Terminal Identifier are sent automatically at the top of each document you send. The Subscriber ID and TTI appear at the top of each page printed by the receiving fax. The Subscriber ID is your fax's telephone number. The TTI can be your name, your business name or any other message up to 22 characters long. You can choose from these characters for your TTI:

(SPACE)	A	B	C	D	E	F	G	H	I	J	.	(SPACE)
(SPACE)	K	L	M	N	O	P	Q	R	S	T	.	(SPACE)
(SPACE)	U	V	W	X	Y	Z	+	,	-	.	/	(SPACE)
(SPACE)	a	b	c	d	e	f	g	h	i	j	.	(SPACE)
(SPACE)	k	l	m	n	o	p	q	r	s	t	.	(SPACE)
(SPACE)	u	v	w	x	y	z	+	,	-	.	/	(SPACE)
(SPACE)	0	1	2	3	4	5	6	7	8	9	-	(SPACE)
(SPACE)	:	;	<	=	>	?	@	[	]			(SPACE)
(SPACE)	!	"	#	$	%	&	'	(	)	*	.	(SPACE)
(SPACE)	Ç	ü	é	â	ä	à	á	Ç	ê	ë	è	(SPACE)
(SPACE)	ï	î	ì	Ä	Å	É	æ	Æ	ô	ö	ò	(SPACE)
(SPACE)	û	ù	ÿ	ö	Ü	¢	£	¥	₧	ƒ	á	(SPACE)
(SPACE)	í	ó	ú	ñ	Ñ	ª	º	¿	β	i	⌐	(SPACE)

1. To enter your Subscriber ID and TTI, press **Program, 0, 9, Confirm/Enter, 2, 0.**

```
┌─────────────────────────────────┐
│  20. Enter Your TTI             │
│  01-24    Enter/Select          │
│                                 │
└─────────────────────────────────┘
```

2. Press **Confirm/Enter.**

```
┌─────────────────────────────────┐
│  Tel:                           │
│            Enter/Select         │
│                                 │
└─────────────────────────────────┘
```

3. Press **Confirm/Enter.** Then use the numeric keypad to enter your telephone number. To make it easy for anyone receiving messages from you to respond, include your telephone area code. Use the dash key, "—", to make a dash appear in your number.

```
┌─────────────────────────────────┐
│  Tel:                           │
│  1-214-403-3499                 │
│                                 │
└─────────────────────────────────┘
```

4. Enter up to 20 numbers. When the Subscriber ID has been entered, press **Confirm/Enter.**

```
┌─────────────────────────────────┐
│  Name:                          │
│            Enter/Select         │
│                                 │
└─────────────────────────────────┘
```

5. Press **Confirm/Enter.**

```
┌─────────────────────────────────┐
│  _ ABCDEFGHIJ.          00      │
│                                 │
│                                 │
└─────────────────────────────────┘
```

6. Use the up, down, left and right arrow keys to highlight the first character of your TTI. Then press **Confirm/Enter** to enter the character.

```
┌─────────────────────────────────┐
│  _ KLMNOPQRST.          01      │
│  S                              │
│                                 │
└─────────────────────────────────┘
```

7. Continue using the arrow keys to select letters, numerals and other characters for your TTI. Then press **Confirm/Enter** to enter each character.

```
┌─────────────────────────────────┐
│  _ uvwxyz+,-./          13      │
│  Smith Company                  │
│                                 │
└─────────────────────────────────┘
```

8. When your TTI has been entered, press **Program.**

```
┌─────────────────────────────────┐
│  Enter Your TTI                 │
│  ** Completed **                │
│                                 │
└─────────────────────────────────┘
```

Set Printer On Time

A special setting allows you to control the amount of time your fax machine's printer heater remains on after it receives a document or makes a copy. For example, you can instruct your fax to shut the printer off one minute after a document is printed, and conserve electricity and reduce your utility bills. The fax automatically turns the printer on again when it receives a document or is instructed to make a copy. Remember that your unit must heat the printer before a fax message or copy can be printed. Your fax takes a little longer to print out fax messages or copies when it must first re-heat the plain-paper printer.

To control the length of time your fax's printer heater remains on after a reception or copy:

1. Press **Program, 0, 9, Confirm/Enter, 2, 1**.

```
21. Printer on time
01-24 Enter/Select
```

2. Press **Confirm/Enter**.

```
Printer on time
Active time 000 min
```

3. Enter the number of minutes you want the printer powered on after a document is received or copied.

```
Printer on time
Active time 001 min
```

4. Press **Confirm/Enter**.

Set Grayscale

Your fax includes 16-level grayscale scanning ability, so it can accurately reproduce and transmit halftone images like photographs.

Your fax has two grayscale settings. Setting 1 is ideal when sending halftone images that include some text, like advertising layouts and magazine pages. Setting 2 provides even better grayscale transmission quality for halftone images that include no text.

This setting determines the type of grayscale your fax will use. You still need to select grayscale using the **Mode/Select** key before copying or transmitting a document.

1. To adjust the grayscale setting, press **Program, 0, 9, Confirm/Enter, 2, 2**.

```
22. Set Grayscale
01-24   Enter/Select
```

2. Press **Confirm/Enter**.

```
Grayscale 1
        Enter/Select
```

3. Press **Mode/Select** to choose the grayscale setting needed.

```
Grayscale 2
        Enter/Select
```

4. Then press **Confirm/Enter**.

RS-232C Settings

The RS-232C interface at the back of your unit lets you use your fax as a draft-quality printer for asynchronous ASCII computers—like your personal computer. If you will not be using your fax as a printer, you can ignore all RS-232C settings described below.

To use the fax as a printer, your computer—either through its operating system or through applications software running on it—must support the X-On/X-Off communications protocol. Your fax uses X-On/X-Off signals to control the flow of information from the computer to the fax.

IBM personal computers running the PC-DOS and MS-DOS operating systems do not support X-On/X-Off by themselves, but many software programs for these computers do. Communications software packages, for example, frequently offer X-On/X-Off options in their set-up or configuration menus. These and other software packages can be used to print a file from your computer on the fax.

The RS-232C parameters you select below will be influenced by the computer software and hardware you are using. Check your computer and software owner's manuals for more information.

Connect the fax to your computer using a standard null modem RS-232C cable.

To change the RS-232C settings:

1. Press **Program, 0, 9, Confirm/Enter, 2, 3**.

```
23. RS-232C Parameter
01-24   Enter/Select
```

2. Press **Confirm/Enter**.

```
Baud Rate: 9600 bps
         Enter/Select
```

3. Press **Mode/Select** until you reach the desired baud rate. Press **Confirm/Enter**.

```
Data Length:  8 Bit
         Enter/Select
```

4. Press **Mode/Select** to reach the required data length.

5. Press **Confirm/Enter**.

```
Parity:       NONE
         Enter/Select
```

6. Press **Mode/Select** for the correct parity setting.

7. Press **Confirm/Enter**.

```
Stop Bit:     2 Bit
         Enter/Select
```

8. Press **Mode/Select** for the appropriate Stop Bit setting.

9. Press **Confirm/Enter**.

```
RS-232C Parameter
  ** Completed **
```

Printing Through RS-232C Port

After you have set the RS-232C parameters, select RS-232C reception so your fax will print out the data sent to it by your computer.

To receive data through the RS-232C port:

1. Press **Program, 1, 2**.

```
12. RS-232C Print
         Enter/Select
```

2. Press **Confirm/Enter**.

```
RS-232C
** Printing   **
```

3. Now send the data file from your computer to the fax. When the file has been printed, press **Stop** to return to standby.

Note: Your unit cannot receive or transmit facsimile messages when being used as a computer printer.

RS-232C Error Messages

If you choose the wrong RS-232C parameters, your fax will alert you with a status message identifying one of seven conditions:

1. Parity error
2. Over-run error
3. Parity and over-run error
4. Framing error
5. Parity and framing error
6. Over-run and framing error
7. Parity, framing and over-run error

Over-run errors are caused by an improper communication rate and framing errors are caused by an incorrect data length setting. Parity errors are caused by an improper parity selection in the RS-232C settings.

Set Reduction

Your fax is set to print received and copied documents at 94 percent of their original size. This slight reduction compensates for the remote fax machine's TTI, which could trigger the printing of a second page on a single-page document.

If you receive documents longer than 11 inches your unit will print the message on two pages.

Your fax offers four reduction options:

- 100 percent reduction—Prints your pages without any reduction. This setting may trigger the printing of a second page on a single-page document to compensate for the sender's TTI.

- 94 percent reduction—Slightly reduces all fax messages and copies and prevents an 11-inch-long document with a TTI from triggering a second page.

- 83 percent reduction—Provides greater reduction for some international stationery sizes and special applications.

- 78 percent reduction—Turns legal-sized originals into letter-sized printed copies.

Your fax also lets you prevent a TTI on a single-page original document from triggering a second page. By turning Print 2nd Page off in step 2 below, you instruct your fax to ignore a second page created by a TTI on a single-page original.

To set the amount of reduction for your printed pages:

1. Press **Program, 0, 9, Confirm/Enter, 2, 4.**

```
   24. Set Reduction
  (01-24) Enter/Select
```

2. Press **Confirm/Enter.**

```
  Print 2nd page:    ON
  Enter/Select
```

3. Press **Confirm/Enter.**

```
  Set Reduction:     78%
  Enter/Select
```

4. Press **Mode/Select** to scroll through the reduction options, and press **Enter/Select** when you find the setting that's right for you.

Checking the Memory in Use

Your fax includes internal memory to store up to 32 pages for transmission, polling and other commands.

The exact number of pages you can store depends on the size of your pages, the amount of text and graphics on each page and the resolution selected.

Your fax includes a handy one-touch command to check the amount of memory in use. From the standby screen, just press **Mode/Select.** The number of delayed commands in memory will display on the top line of the LCD. The bottom line will show the same information graphically.

```
  Commands in Queue (02)
  **---
```

Then press **Mode/Select** again. Your fax will display the amount of memory in use and an approximate graphical representation. Then press **Stop** to return to standby.

```
  Memory in Use (013%)
  *---------
```

If you try to enter documents requiring more memory than your fax has available, your unit will beep several times and display "Memory Overflow" on the LCD. If it does, press **Confirm/Enter** to save the pages scanned up to the point at which memory overflowed, or press **Original/Cancel** to remove the pages saved in memory.

Clear Memory

This command deletes all user information from your fax and returns all user settings and dip switches (see page 91) to their factory positions.

Do not use this command unless you want to delete all user information—TTI, Subscriber ID, speed-dial numbers, one-touch keys, journal information and all other stored information—from your fax.

1. To clear all user settings and return all dip switches to their factory settings, press **Program, *, 3**.

```
All Clear
          Enter/Select
```

2. Press **Confirm/Enter**.

```
All Clear
Sure?   Enter/Select
```

3. Press **Confirm/Enter** to erase all information. Press **Mode/Select** to return to standby without erasing the information.
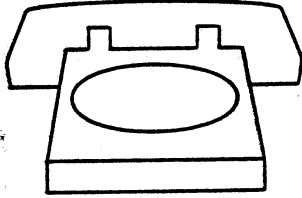
Before You Call...

Q: I have not been able to receive fax calls manually. I tried pressing Start when I hear fax tones, but the phone line disconnects. What am I doing wrong?

A: When you pick up the handset and hear calling tones from a remote fax, press Start before you hang up the handset. Your machine will begin reception.

Q: How can I manually receive a fax while I am talking on the phone?

A: If you want to receive a fax message, tell the operator to insert a document in the remote unit and press Start. After you hear fax tones, press Start. Your fax will take over the line and receive the document. If you wish to reconnect the voice line after the message has been received, press Monitor/Call while the fax is printing. After the transmission is complete, your fax machine will ring. You can then pick up the handset and resume your conversation.

Q: I tried dialing "6,6" from a phone in another room to switch a fax call to my fax, but it doesn't work. Why?

A: The second phone that you use to switch fax calls to your fax must be connected to your fax's Phone 2 connection. See page 26 for more information.

Q: Can I transmit and receive at the same time?

A: No, but use the call mode (see page 51) to ask the remote operator if he or she wants to transmit or receive after your transaction is completed.

Reception

Your fax offers several ways to answer incoming telephone calls. You can answer calls manually using the fax handset, or let your fax answer calls automatically. Your fax even includes a modular jack to allow your fax to work with a second telephone or with a telephone answering machine. Review the "Telephone Information and Setup" section on page 25 to make sure you have selected the proper settings for your fax use.

Manual (Tel Ready)

When your fax is set to "Tel Ready", (see page 26) you will answer each call using the fax handset. To answer a call manually:

1. When the phone rings, pick up the handset.

2. If it's a voice call, talk as you would normally.
   If you hear loud, shrill fax calling tones, you've received a fax call. Press **Start**, then hang up the handset.

   Your fax will print out the received message.

Automatic Reception

You have several choices for automatic reception: Your fax can immediately begin fax reception; when a second telephone is connected and your fax answers, callers will hear a voice prompt; or your answering machine can answer incoming calls and switch fax calls directly to the fax.

Fax Ready

Your fax answers each call after a set number of rings and immediately attempts to receive a fax. (See page 32 for information on setting the number of rings before your fax will answer automatically.) If you wish, you may answer calls using the handset before the fax answers.

Tel/Fax Ready

A second telephone connected to your fax allows added convenience: You can answer calls from a second telephone physically connected to the fax—the phone may be in the next room—and transfer fax calls back to the fax. Your fax will automatically print out the fax message. (For information, see the section on Switch-to-Fax later in this chapter.)

When you let the fax answer in Tel/Fax Ready mode, callers will hear the following prerecorded voice prompt:

> *Hello. If you wish to send a fax, transmit now. If not, check the number and dial again. Thank you.*

You can also answer calls using the fax machine's built-in handset.

Ans./Fax Ready

You can answer the calls with the fax machine's built-in handset or allow the answering machine connected to the "Phone 2" jack to respond.

When you or your answering machine answer a call, the fax will listen quietly on the line. People calling will not know the facsimile machine is there. If the call is from a remote fax machine, however, your fax will hear the distinctive transmission tones from the remote unit and will automatically come on the line to print out the message. Your telephone handset or answering machine will be disconnected when your fax comes on the line.

Although this setting normally allows the answering machine to respond to all calls, your fax will answer the line after seven rings if your answering machine breaks or does not answer for some other reason. In these cases, your fax will attempt to begin fax communication immediately and will not play the answering prompt.

For more information on using your fax with an answering machine, see "Telephone Information and Setup."

Special Answering Features

Switch to Fax

If you answer an incoming fax call with the fax machine's handset or with a telephone connected to the "Phone 2" jack, you will hear distinctive fax transmission tones. To receive the call, press **Start** and hang up. If the phone connected to the fax is in another room, press "6" on the telephone keypad two or four times (see page 94) to instruct the fax to come on the line and print the fax message.

Voice Prompt

When you have connected a second telephone to your fax and allow the fax to answer incoming calls automatically, callers to your fax will hear a pre-recorded voice prompt:

Hello. If you wish to send a fax, transmit now. If not, check the number and dial again. Thank you.

While the prompt is being played, a special bell in your fax will ring softly, letting you know your fax has answered the telephone line but has not yet attempted reception. You can pick up the fax handset at any time during the 10-second message to turn off the voice prompt and listen to the incoming call through the handset.

The prompt is part of the software in your fax and is available in English and Spanish (see page 29).

Print SecureMail

SecureMail is an exclusive Murata feature for confidential document transmission: SecureMail transmissions are sent to memory "mail boxes", where they are protected by an access code selected by the mail box holder. Your fax offers up to 10 SecureMail boxes.

When a SecureMail document is received, your fax will print a message alerting the intended recipient. You can set the amount of time you want your SecureMail documents stored in memory, between 1 and 31 days (see page 41). The received message will be erased from memory automatically if it's not retrieved before the specified time. See page 61 for information on SecureMail transmission.

1. To print a SecureMail message received into memory, press **Program, 0, 6.**

```
6. Print SecureMail
01-12   Copy/Select
```

2. Press **Copy.**

```
Print   SecureMail
Mailbox Number:
```

3. Use the numeric keypad to enter the number of the mailbox in which the message is stored. Then press **Confirm/Enter.**

```
Print SecureMail
     Your ID Number:
```

4. Use the keypad to enter your access code. Then press **Confirm/Enter.** If you entered the right code, the SecureMail message will be printed.

```
Print   SecureMail
** Printing **
```

Call Reserve

Your fax machine's call reserve allows you to have both telephone and facsimile communication at different times during the same call. Without call reserve, your fax prevents telephone conversations after it begins fax communication.

To use this feature, the remote fax must have a similar call-reserve capability.

To reserve a call during transmission or reception:

1. While the fax is sending or receiving, press **Monitor/Call.**

At the remote fax, the telephone will ring after the transmission of each page.

If someone at the remote fax responds to the call request, your fax will ring several times.

2. When your fax rings, pick up the handset and press **Stop.** In a few seconds, the line will open.

3. Begin your conversation.

Note: To transmit after your conversation, insert a document into your fax before hanging up. At the end of your call, instruct the operator of the remote fax to press **Start** before hanging up. When you hear facsimile tones, press **Start** and hang up the handset.

Responding to a Call Request

1. When a remote operator requests a voice call during fax communication, your fax will ring after each page of the document is received.

2. To answer the call request, pick up the handset and press **Monitor/Call.** When the remote operator responds to your call request response, begin your conversation.

Low-Paper Warning

When your fax machine's paper supply is low, the following LCD message will appear:

```
FAX READY
Please add paper.
```

See page 11 for instructions on installing paper.

Out-of-Paper Reception

If your fax runs out of paper at night or while you are out of the office, up to 5 incoming messages will be stored in your fax's document memory. These messages will be printed automatically when you replace the paper.

The number of pages your fax can store in memory is determined in part by the page size of the document received and the resolution at which it was transmitted. As a general rule, documents transmitted in fine resolution take twice the memory of a normal-resolution document. See page 47 to check the memory in use in your fax.

After your fax machine's memory is full, it will ignore later fax calls and cannot receive again until you replenish the paper.

Using Your Fax as a Copier

Your fax makes up to 99 copies, and even includes a convenient, user-selectable sorting option that allows you to sort copies if desired. Use regular-weight, 20-pound copier (xerographic) paper.

Do not copy: extremely thin or wrinkled pages; documents carrying staples, glue, tape or paper clips; pages with duplicating carbon on one side; newspaper; or fabric.

1. Place your document face down into the machine's document feeder. Never place more than 30 pages in the feeder at one time.

2. Press **Mode/Select** to choose the copy resolution. Press **Original/Cancel** to compensate for a dark or light original.

3. To make one copy, press **Copy** .
   Or enter the number of copies you need—up to 99—then press **Copy**.

```
Sorting Copy  ON
  99     Copy/Select
```

4. Press **Copy** to use the sorting function, **or press Mode/Select** to turn the automatic sorting function off, then press **Copy**.

In the example below, the first number on the LCD (01) shows you which page of your document is being scanned. The second number (02) indicates the total number of copies you've requested:

```
Multiple Copies 87/99
** Printing **
```

Notes: Your machine will produce copies at 94 percent of the original size. (See "Set Reduction" on page 46.) Your fax cannot respond to incoming telephone calls while being used as a copier.

Print Density Control: A small knob on the left side of your fax controls the amount of toner on your printed pages. If your copies are too light or too dark, adjust this control until you achieve the desired toner density.
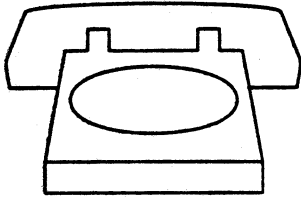
Before You Call...

Q: When I dial a remote fax using my fax handset I don't hear fax receiving tones. Am I doing something wrong?

A: When this happens, try pressing Start, then hang up the handset as you normally would. It's possible you're calling a fax that doesn't emit answering tones. A few Group 3 faxes on the market sound a sending tone but do not sound a receiving tone. After you transmit, call the remote operator to see if your document was received.

Q: I inserted a document in the feeder and dialed the remote fax, but my machine didn't transmit; however, a second time and date appear on my LCD above the current time. What does this display mean?

A: The remote machine was busy and your LCD displayed the time for the next redial attempt. For more information on setting the number of redial attempts, see page 35.

Q: Can I transmit and receive at the same time?

A: No, but use the call mode (see page 63) to ask the remote operator if he or she wants to transmit or receive after your transaction is completed.

Q: People I send fax messages to say all my documents are received at a reduced size. Is the problem with my machine or with theirs, and what can I do to correct this problem?

A: Make sure that the guides on your document feeder are adjusted to the width of the pages you send. If you leave the guides adjusted for an 11-inch page, for example, any 8.5-inch-wide pages you transmit will be reduced when printed at the remote machine.

Transmission

Page Size

Each page inserted into your fax machine's feeder must fall within these page-size requirements:

Maximum:	11 (w) x 14.3 (l) inches
Minimum:	4.7 (w) x 5.8 (l) inches

An optional setting (see page 93) allows you to transmit water well logs, medical strip charts and other pages longer than 14.3 inches.

When transmitting to a fax machine with an 8.5-inch print width, wider documents will be reduced automatically to accommodate the receiving unit. To transmit images from documents smaller than the minimum or from newspaper, cardboard or overhead transparencies, first copy the document on a copier. Use the copied image for your transmission.

Do not transmit:

*   Extremely thin or wrinkled pages
*   Documents carrying staples, glue, tape or paper clips
*   Pages with duplicating carbon on one side
*   Newspaper
*   Fabric

Inserting a Document
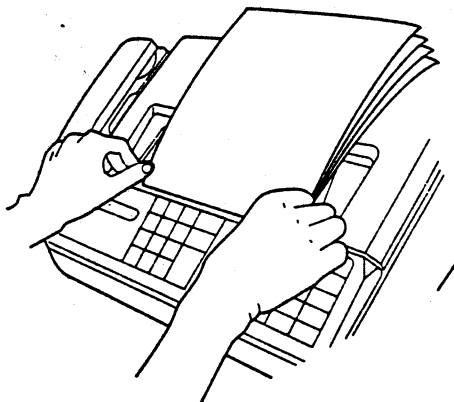
Your fax will hold up to 30 sheets of normal-weight copier paper. The feeder advances pages through your fax from the bottom of the inserted stack, so you can add more pages to your feeder during transmission.

Note: Do not press down on the document mount assembly or the document hopper. Any damage to these attachments could hinder document feeder operation.

To insert a document into the feeder:

1. Adjust the feeder guides to your document's width.

2. Making sure the document hopper is flipped up, insert your document face down into the feeder. The feeder will automatically advance the first page—the one on the bottom of the stack—partially into the fax.

Resolution and Contrast

3. Press **Mode/Select** to set the resolution.

Normal is suited to most typed documents. Fine is ideal for detailed or handwritten documents. Superfine reproduces the detail of extremely complicated drawings or line images. Grayscale is used to accurately transmit halftone images and photographs. Choose G2 when transmitting to a Group 2 fax. If you choose another resolution when sending to a G2 unit, your fax will fall back to G2 automatically. Superfine is available when transmitting to Murata fax machines with superfine. All other fax machines will receive superfine transmissions in fine mode. Grayscale is available when transmitting to any Group 3 fax machine—even to those without the grayscale mode.

4. Press **Original/Cancel** to select the contrast setting needed.

Normal is suited to most documents. Dark compensates for dark documents. Light compensates for weak, "washed-out" images.

5. Begin transmission.

Redialing Busy Numbers

When your fax encounters a busy signal, it will automatically attempt to redial the busy number. User settings control how many times the fax will redial a busy number and the amount of time between each attempt (see pages 35 and 36).

This redial feature is not available for transmissions made using the monitor or telephone handset.

Using the Keypad

To enter information for your fax:

In most sections of this book you will be instructed to enter information for fax commands and user settings. An example of how to enter (or program) information or commands follows:

To Print the User Settings

1. Press **Program, 0, 9, Confirm/Enter, 1, 7.**

What it means:

Program = Press Program key.

0, 9 = Enter using the machine's numeric keypad.

Confirm/Enter = Press Confirm/Enter key.

1, 7 = Enter using the machine's numeric keypad.

1. Insert your document.

```
Fax Ready
A4        Norm      Norm
```

2. If you want to change the transmission resolution, press **Mode/Select**. If you want to set the contrast, press **Original/Cancel**.

```
Fax Ready
A4        Fine      Light
```

3. Use the numeric keypad to enter the telephone number for the remote fax. If you enter a number by mistake, press **Original/Cancel** to delete a character at a time. You can use the dash key to enter dashes in your number. The dash makes long numbers easier to read and does not alter the way your fax machine operates.

```
Fax Ready
1-214-403-3499
```

4. Press **Start**. Your fax will begin dialing.

```
1-214-403-3499
A4        Fine      Light
```

Using a One-Touch Key

1. Insert your document.

```
Fax Ready
A4        Norm      Norm
```

2. If you want to change the transmission resolution, press **Mode/Select**. If you want to set the contrast, press **Original/Cancel**.

```
Fax Ready
A4        Fine      Light
```

3. Press the one-touch key programmed for the receiving fax. The Location ID or, if the Location ID is not programmed, the telephone number for the remote fax will be displayed in the LCD while your fax dials the remote unit.

```
Murata
A4        Fine     Light
```

Using a Speed-Dial Number

1. Insert your document.

```
Fax Ready
A4        Norm     Norm
```

2. If you want to change the transmission resolution, press **Mode/Select**. If you want to set the contrast, press **Original/Cancel**.

```
Fax Ready
A4        Fine     Light
```

3. Press **Speed Dialer** followed by the two-digit speed-dial number programmed for the remote fax.

```
Fax Ready
(01)
```

4. Press **Start**. The Location ID or, if the Location ID is not programmed, the telephone number for the receiving fax will be displayed.

```
Murata
A4        Fine     Light
```

Using the Handset

1. Insert your document.

```
Fax Ready
A4        Norm     Norm
```

2. If you want to change the transmission resolution, press **Mode/Select**. If you want to set the contrast, press **Original/Cancel.**

```
Fax Ready
A4        Fine     Light
```

3. Pick up the handset or press **Monitor/Call.**

4. Dial the telephone number for the remote fax with the handset keypad, numeric keypad, one-touch key or by pressing **Speed Dialer** and a two-digit code.

5. When the remote fax answers and you hear facsimile tones, press **Start**.

Storing Delayed Commands

Your fax can store up to 5 delayed dialing commands, allowing you to send or poll documents without operator involvement up to 31 days later.

Delaying your document transmission until after business hours means it's less likely your fax will contact a busy machine, and may also reduce your telephone charges.

Your fax uses a built-in calendar when it plans execution of your delayed commands. So, if on May 25 you set a command to take place on "Date: 03", the command will be executed on June 3.

When you program a delayed command, you enter the date only, and not the month. Because the month for the delayed command is not programmed, pay special attention when you store a delayed command for exactly one month in advance. e.g. May 25 to June 25. If the time you enter for the command is later than the current time, the transmission will actually occur the same day you enter the command.

In the example below, on May 25 at 7:55 you program a delayed command to take place on Date: 25 at 8:00. In this special case, your fax would try to transmit in just five minutes.

```
Delay Transmission
Date:          25, 08:00
```

Because you want the command to take place one month from the current date, you would instead program the command to occur at a time earlier than the present time, as shown below.

```
Delay Transmission
Date:          25, 07:30
```

Because 7:30 is earlier than the present time (7:55), your fax will hold the command in memory a month, then execute it as instructed. Remember, this is a special case that applies to delayed commands occurring on a calendar day that's the same as the present calendar day.

Delayed Transmission

Delaying your document transmission until after business hours means there's less chance your fax will contact a machine that's busy, and may also reduce your telephone charges.

1. To delay the transmission of a document, insert the document into the feeder. Press **Mode/Select** to choose the transmission resolution and **Original/Cancel** to set the contrast, if desired.

```
Fax Ready
A4        Fine    Light
```

2. From standby, press **Program, Confirm/Enter.**

```
1. Delay Transmission
1-4      Enter/Select
```

3. Press **Confirm/Enter.**

```
Memory Transmission
          Enter/Select
```

4. Press **Confirm/Enter** if you want the transmission to take place from memory or **Mode/Select** if you want the transmission to be from the feeder. Transmitting from memory leaves the feeder free for other transmissions: A delayed command from the feeder ties up the feeder until the command is completed.

```
Delay Transmission
Number of Pages:
```

5. Use the numeric keypad to enter the number of pages in your document. Enter up to 30 pages.

```
Delay Transmission
Number of Pages:     3
```

6. Press **Confirm/Enter**.

```
Delay Transmission
Enter Fax Number
```

7. Enter a one-touch key or press **Speed Dialer** and the two-digit speed-dial number needed. Or dial direct, and enter a number using the machine's keypad.

```
Delay Transmission
[01]
```

8. Press **Confirm/Enter**. The current date will be displayed. Press **Confirm/Enter** to begin the transmission immediately. Or use the numeric keypad to enter the day you want transmission to take place.

```
Delay Transmission
Date:   02, 10:30
```

9. Press **Confirm/Enter**. Use the numeric keypad to enter the hour you want transmission to take place. Remember to enter the time in 24-hour format.

```
Delay Transmission
Hour:   02, 23:30
```

10. Press **Confirm/Enter**. Then enter the minute you want transmission to take place.

```
Delay Transmission
Minute:  02, 23:55
```

Press Confirm/Enter.

If you requested memory transmission, your fax will scan the document into memory, then display the start time of the next delayed command on the LCD's top line.

```
Feb. 02, 89    23:55
Feb. 01, 89    10:30
```

To check the number of delayed commands in memory, press **Mode/Select**. Press **Mode/Select** again to view the fax memory in use. Press **Stop** to return to standby.

Broadcasting

Delayed transmission sends your document to a single remote unit. When you use broadcasting. one command sends your document to up to 80 locations. Broadcasting can be delayed, to take advantage of late-night phone rates, or started immediately. Your fax allows one delayed broadcast command.

1. To broadcast your document to two or more locations, insert the document into the feeder. Press **Mode/Select** to choose the transmission resolution and **Original/Cancel** to set the contrast, if desired.

```
Fax Ready
A4         Fine    Light
```

2. Press **Program, Confirm/Enter, 2.**

```
2. Delayed Broadcast
1-4        Enter/Select
```

3. Press **Confirm/Enter.**

```
Delayed Broadcast
Number of Pages:
```

4. Use the numeric keypad to enter the number of pages in your document.

```
Delayed Broadcast
Number of Pages:    5
```

5. Press **Confirm/Enter.**

```
Delayed Broadcast
Enter Fax Number
```

6. Now enter the telephone number or numbers for the broadcast. You can enter up to five numbers using one-touch numbers, speed-dial numbers, group numbers and/or numbers entered using the fax keypad.

Press **Program** between telephone numbers. In the example below, one-touch key 1, group 3 and speed-dial number 25 are entered.

```
Delayed Broadcast
[01],G3,(25)
```

To enter a call group, press the pound (#) key and the group number needed.

7. When the autodialer numbers are entered, press **Confirm/Enter**. The current date and time will be displayed. If you want the broadcast to begin immediately, press **Confirm/Enter**. Or enter the day you want the broadcast to take place.

```
Delayed Broadcast
Date :  01, 14:55
```

8. Press **Confirm/Enter**. Then enter the hour you want the broadcast to take place. Remember to enter the time in 24-hour format.

```
Delayed Broadcast
Hour:    02, 20:55
```

9. Press **Confirm/Enter**. Then enter the minute you want the broadcast to take place.

```
Delayed Broadcast
Minute: 02, 20:30
```

Press **Confirm/Enter**.

Your fax machine will scan the document into memory. If you requested that the broadcast begin immediately, your fax will start dialing the first fax. If you requested delayed broadcasting, the fax will display the start time of the next delayed command on the top line of the LCD.

```
Feb. 02, 89    20:30
Feb. 01, 89    14:55
```

To check the number of delayed commands in memory, press **Mode/Select**. Press **Mode/Select** again to view the amount of internal fax memory in use. Then press **Stop** to return to standby.

Broadcast Interrupt

There's no need to wait to send an urgent message just because your fax is in the middle of a broadcast: The interrupt feature lets you briefly halt the broadcast, send your important communication and resume the broadcast at the point you stopped it.

1. To interrupt a broadcast, press **Speed Dialer**.

2. Your fax will complete the telephone call underway. When the call is complete, the fax will beep several times and the LCD will show that the broadcast has been temporarily halted.

```
** Interrupted **
```

3. Making sure a document is inserted, enter a speed-dial number or one-touch key. When the fax has completed your command, it will automatically resume the broadcast.

Your fax will beep for about one minute after interrupting the broadcast. If you have not started to enter your new command by the end of that minute, the fax will resume the broadcast automatically.

Relay Broadcast

Relay broadcast initiation lets you team your fax with Murata's high-volume hub fax machines, like the Murata F-55. Use your fax and the relay broadcast command below to send a document to an F-55 or similar hub unit. The F-55 will retransmit the document to each location in the F-55 call group you select.

Relay broadcast initiation is a great way to reduce telephone charges: Use your fax to send a document to an F-55 at a regional headquarters, for example. The F-55 can transmit the document to regional offices on local telephone lines. The overall cost of delivering your document to close to a hundred locations is a fraction of what it would be if your fax made all the calls on long-distance telephone lines.

1. To start a relay broadcast, insert your document into the feeder. Press **Mode/Select** to choose the transmission resolution and **Original/Cancel** to set the contrast, if desired.

```
Fax Ready
A4          Fine    Light
```

2. Press **Program, Confirm/Enter, 3.**

```
3. Relay Broadcast
1-4       Enter/Select
```

3. Press **Confirm/Enter.**

```
Memory Transmission
          Enter/Select
```

4. Press **Confirm/Enter** to begin the broadcast from memory. Press **Mode/Select** to transmit the document from the feeder.

```
Relay Broadcast
Relay Number:
```

5. Use the numeric keypad to enter the number of the call group at the remote unit. This group must already be programmed at the central fax machine.

```
Relay Broadcast
Relay Number: 5
```

6. Press **Confirm/Enter.**

```
Relay Broadcast
Number of Pages:
```

7. Use the numeric keypad to enter the number of pages in your document.

```
Relay Broadcast
Number  of Pages:   3
```

8. Press **Confirm/Enter.**

```
Relay Broadcast
Enter Fax Number
```

9. Now enter the one-touch or speed-dial number needed, or dial direct using the numeric keypad.

```
Relay Broadcast
[01]
```

10. Press **Confirm/Enter.** The current time will be displayed. Press **Confirm/Enter** to begin the broadcast initiation immediately. Or use the numeric keypad to enter the date you want the broadcast to take place.

```
Relay Broadcast
Date:   02,  14:55
```

11. Press **Confirm/Enter.** Then enter the hour you want the broadcast initiation to take place. Remember to enter the time in 24-hour format.

```
Relay Broadcast
Hour:   03,  15:55
```

12. Press **Confirm/Enter.** Then enter the minute you want the broadcast initiation to take place.

```
Relay Broadcast
Minute:   03,  15:30
```

Press **Confirm/Enter.**

If you requested that the broadcast begin immediately, your fax will begin dialing. If you delayed the broadcast initiation, the fax will display the start time of the next delayed command on the top line of the LCD.

```
 Feb.  03,  89   15:30
 Feb.  02,  89    14:55
```

To check the number of delayed commands in memory, press **Mode/Select.** Press **Mode/Select** again to view the amount of internal fax memory in use. Then press **Stop** to return to standby.

Transmit SecureMail

SecureMail is an exclusive Murata feature for confidential documents: SecureMail transmissions are sent to memory "mail boxes" in other Murata fax machines, where they are protected by an access code selected by the mail box holder. If the box holder does not retrieve the message within a set period of time, the message is erased from memory automatically.

Documents sent to F-75 machines can be stored for up to 31 days. Documents sent to F-55, F-50 and PCF 9 machines are stored for 72 hours. F-45, M1800 and M1750 fax machines store SecureMail documents for 24 hours.

1. To send a SecureMail transmission, insert your document into the feeder. Press **Mode/Select** to choose the transmission resolution and **Original/Cancel** to set the contrast, if desired.

```
Fax Ready
A4          Fine      Light
```

2. Press **Program, Confirm/Enter, 4.**

```
4. Trans. SecureMail
1-4      Enter/Select
```

3. Press **Confirm/Enter.**

```
Memory Transmission
         Enter/Select
```

4. Press **Confirm/Enter** to transmit from memory. Press **Mode/Select** to transmit the document from the feeder.

```
Trans.SecureMail
Mailbox Number:
```

5. Use the numeric keypad to enter the mail box number for the remote unit.

```
Trans.SecureMail
Mailbox Number:      7
```

6. Press **Confirm/Enter.**

```
Trans.SecureMail
Number of Pages:
```

7. Use the numeric keypad to enter the number of pages in your document.

```
Trans.SecureMail
Number of Pages:     3
```

8. Press **Confirm/Enter.**

```
Trans.SecureMail
Enter Fax Number
```

9. Enter a one-touch key or press **Speed Dialer** and the number needed. Or dial direct using the numeric keypad.

```
Trans.SecureMail
[01]
```

10. Press **Confirm/Enter.** The current date and time will be displayed. Press **Confirm/Enter** to begin the transmission immediately. Or use the numeric keypad to enter the day you want the transmission to take place.

```
Trans. SecureMail
Date:  02, 14:55
```

11. Press **Confirm/Enter.** Then enter the hour you want the SecureMail transmission to take place. Remember to enter the time in 24-hour format.

```
Trans.SecureMail
Hour:   10, 08:55
```

13. Press **Confirm/Enter**. Then enter the minute you want the SecureMail transmission to take place.

```
Trans.SecureMail
Minute: 10, 08:30
```

Press **Confirm/Enter**.

If you requested that the transmission begin immediately, your fax will start dialing. If you delayed the transmission, the fax will display the start time of the next delayed command on the top line of the LCD.

```
Feb. 10, 89    08:30
Feb. 02, 89    14:55
```

To check the number of delayed commands in memory, press **Mode/Select**. Press **Mode/Select** again to view the amount of internal fax memory in use. Then press **Stop** to return to standby.

Call Reserve

Your fax machine's call reserve allows you to have both telephone and facsimile communication at different times during the same call. Without call reserve, your fax prevents telephone conversations after it begins fax communication.

To use this feature, the remote fax must have a similar call-reserve capability.

To reserve a call during transmission or reception:

1. While the fax is sending or receiving, press **Monitor/Call**.

At the remote fax, the telephone will ring after the transmission of each page.

If someone at the remote fax responds to the call request, your fax will ring several times.

2. When your fax rings, pick up the handset and press **Stop**. In a few seconds, the line will open.

3. Begin your conversation.

Note: To transmit after your conversation, insert a document into your fax before hanging up. At the end of your call, instruct the operator of the remote fax to press **Start** before hanging up. When you hear facsimile tones, press **Start** and hang up the handset.

Responding to a Call Request

1. When a remote operator requests a voice call during fax communication, your fax will ring after each page of the document is received.

2. To answer the call request, pick up the handset and press **Monitor/Call**. When the remote operator responds to your call request response, begin your conversation.

Before You Call...

Q: Remote operators have tried to poll my fax, but aren't able to retrieve the stored document. What's wrong?

A: You probably entered a passcode restricting access to your fax. Give your passcode to authorized Murata operators only.

Polling

Polling lets you store a document in your fax for automatic transmission to a remote fax when that fax calls. Polling also lets you call a remote fax and retrieve a document set to be polled.

Your fax can also be used for database polling from Murata's high-volume office fax machines, like the Murata F-55. Database polling lets you retrieve documents from numbered files in the central fax's memory.

Polling procedures can be protected with a passcode (see page 31). When you enter a passcode into your fax, only Murata-manufactured units presenting the same passcode will be allowed to poll documents from your fax.

Polling

Use polling to retrieve documents stored in other fax machines. Polling can be started immediately, or delayed to take advantage of late-night phone rates.

To enter information for your fax:

In most sections of this book you will be instructed to enter information for fax commands and user settings. An example of how to enter (or program) information or commands follows:

To Print the User Settings

1. Press **Program, 0, 9, Confirm/Enter, 1, 7.**

What it means:

Program = Press Program key.

0, 9 = Enter using the machine's numeric keypad.

Confirm/Enter = Press Confirm/Enter key.

1, 7 = Enter using the machine's numeric keypad.

---

1. To poll from a remote fax, press **Program, 0, 2, Confirm/Enter.**

```
1. Delayed Polling
1-4      Enter/Select
```

2. Press **Confirm/Enter.**

```
Delayed Polling
Enter Fax Number
```

3. Enter the one-touch or speed-dial number for the remote unit. Or dial direct, using the fax machine's keypad.

```
Delayed Polling
[01]
```

4. Press **Confirm/Enter.** The current time and date will be displayed. Press **Confirm/Enter** to begin polling immediately. Or use the numeric keypad to enter the day you want polling to take place.

```
Delayed Polling
Date:   02, 14:55
```

5. Enter the hour you want delayed polling to take place. Remember to enter the time in 24-hour format.

```
Delayed Polling
Hour:   03, 23:55
```

6. Press **Confirm/Enter.** Enter the minute.

```
Delayed Polling
Minute: 03, 23:30
```

Press **Confirm/Enter**.

If you requested that polling begin immediately, your fax will start dialing. If you programmed delayed polling, the fax will display the start time of the next delayed command on the top line of the LCD.

```
Feb 03, 89    23:30
Feb.02, 89    14:55
```

To check the number of delayed commands in memory, press **Mode/Select**. Then press **Stop** to return to standby.

Database Polling

Use database polling to retrieve up to six specific files of information on a single call to a Murata high-volume fax machine, like the Murata F-55.

1. To begin database polling, press **Program, 0, 2, Confirm/Enter, 2**.

```
2. Delayed DB Polling
1-4 .    Enter/Select
```

2. Press **Confirm/Enter**.

```
Delayed DB Polling
Enter Fax Number
```

3. Enter the one-touch or speed-dial number for the remote unit. Or dial direct using the numeric keypad.

```
Delayed DB Polling
[01]
```

4. Press **Confirm/Enter**. Use the numeric keypad to enter the number of the database files needed. If retrieving more than one file, press **Program** between file numbers. You can request up to six files on each call.

```
Delayed DB Polling
DataBase Number: 1,4
```

5. When you have entered all file numbers needed, press **Confirm/Enter**. The current time will be displayed. Press **Confirm/Enter** to begin database polling immediately. Or use the numeric keypad to enter the day you want database polling to take place.

```
Delayed DB Polling
Date :    02, 14:55
```

6. Enter the hour you want database polling to begin. Remember to enter the time in 24-hour format.

```
Delayed DB Polling
Hour:     03, 07:55
```

7. Press **Confirm/Enter**. Then enter the minute you want database polling to take place.

```
Delayed DB Polling
Minute:  03, 7:30
```

Press **Confirm/Enter**.

If you requested that database polling begin immediately, your fax will start dialing. If you programmed delayed database polling, the fax will display the start time of the next delayed command on the top line of the LCD.

```
Feb. 03, 89   07:30
Feb. 02, 89   14:55
```

To check the number of delayed commands in memory, press **Mode/Select**. Then press **Stop** to return to standby.

Sequential Polling

Sequential polling is ideal when a central fax must retrieve information from several remote units. A fax in a central sales office, for example, can be used to poll daily sales figures from up to 80 locations using the sequential polling command and a pre-programmed call group. You fax allows one delayed sequential polling command.

1. To begin sequential polling, press **Program**, **0, 2**, **Confirm/Enter**, **3**.

```
3. Sequential Polling
1-4       Enter/Select
```

2. Press **Confirm/Enter**.

```
Sequential Polling
Enter Fax Number
```

3. Now enter up to five telephone numbers. You can use one-touch numbers, speed-dial numbers, group numbers and numbers entered using the numeric keypad. To enter a call group, press the pound (#) key and the group number needed. Press **Program** between numbers. In the example below, one-touch key 1, group 3 and speed-dial number 25 are entered.

```
Sequential Polling
[01],G3,(25)
```

4. Press **Confirm/Enter**. The current time will be displayed. Press **Confirm/Enter** to begin polling immediately. Or use the numeric keypad to enter the day you want polling to take place.

```
Sequential Polling
Date:   02, 14:55
```

5. Press **Confirm/Enter**. Then enter the hour you want polling to take place. Remember to enter the time in 24-hour format.

```
Sequential Polling
Hour:   03, 23:55
```

6. Press **Confirm/Enter.** Then enter the minute you want polling to take place.

```
Sequential Polling
Minute:         03, 23:30
```

Press **Confirm/Enter.**

If you requested that polling begin immediately, your fax will start dialing. If you requested delayed polling, the fax will display the start time of the next delayed command on the top line of the LCD.

```
Feb. 03, 89    23:30
Feb. 02, 89    14:55
```

To check the number of delayed commands in memory, press **Mode/Select.** Then press **Stop** to return to standby. Use the interrupt command to briefly halt a sequential polling operation so you can send an important message (see page 59).

Store Polling Documents

Your fax lets you store a polling document in internal memory or leave it in the feeder to be retrieved by a remote unit. If you store the document in memory, you can print the document out for review at any time without erasing it from memory. Your fax also includes a command to delete a document stored in memory for polling.

Remember that the optional passcode (see page 31) can be used to protect a document set for polling from unauthorized access.

1. Insert your document into the feeder. Press **Mode/Select** to choose the resolution and **Original/Cancel** to set the contrast, if desired.

2. Then press **Program, 0, 2, Confirm/Enter, 4.**

```
4. Input Polling Doc
1-4      Enter/Select
```

3. Press **Confirm/Enter.**

```
1. Input Polling Doc
1-3      Enter/Select
```

4. Press **Confirm/Enter.**

```
Memory Transmission
           Enter/Select
```

5. Press **Confirm/Enter** to store the document in memory. Press **Mode/Select** to leave the document in the feeder. Storing the document in memory leaves the feeder free for other uses. Polling from the feeder ties up the feeder until the document is retrieved by a remote unit.

```
Input Polling Doc
Number of Pages:
```

6. Use the numeric keypad to enter the number of pages in the document.

```
Input Polling Doc
# of Pages:    5
```

7. Press **Confirm/Enter**. If you decided to store the document in memory, your fax will scan the document and return to standby. If you left the polling document in the feeder, your fax can receive fax messages as usual and complete delayed commands already in memory, but cannot be used to scan in or copy another document until the polling document has been retrieved.

Erase Document

1. To erase a document stored in memory for polling, press **Program**, **0**, **2**, **Confirm/Enter**, **4**.

```
4. Input Polling Doc
1-4      Enter/Select
```

2. Press **Confirm/Enter**, **2**.

```
2. Erase Polling Doc
1-3      Select/Cancel
```

3. Press **Original/Cancel** to erase the document in memory.

```
Erase Polling Doc.
** Erased **
```

Print Document

1. To print a document stored for polling without erasing it from memory, press **Program**, **0**, **2**, **Confirm/Enter**, **4**.

```
4. Input Polling Doc
1-4      Enter/Select
```

2. Press **Confirm/Enter**, **3**.

```
Print Polling Doc
1-3      Copy/Select
```

3. Press **Copy** to print the document in memory.

```
Print Polling Doc
** Printing **
```

Q: I tried to enter two delayed broadcast commands, but my fax will only accept one. What's wrong?

A: Your fax allows only one delayed broadcast command and one delayed sequential polling command. You can enter several transmission, non-sequential polling and SecureMail commands, for example, but you can enter only one delayed broadcast and one delayed sequential polling command.

Q: I tried to enter two delayed sequential polling commands, but my fax will only accept one. What's wrong?

A: Your fax allows only one delayed broadcast command and one delayed sequential polling command. You can enter several transmission, non-sequential polling and SecureMail commands, for example, but you can enter only one delayed broadcast and one delayed sequential polling command.

Delayed Commands

Your fax can store 5 delayed commands in memory for unattended fax communications when you're away. Just program the command to take place at any time—even up to 31 days later. Your fax machine's memory does the rest. Set a document in the feeder for transmission when you specify, or scan it into memory so it's kept out of sight.

The commands below allow you to view a printed schedule of the delayed commands in memory. print out a document you've stored for a delayed transmission, and erase a delayed command from memory.

Print Commands

1. To print a list of the delayed commands programmed in your fax, press **Program, 0, 8, Confirm/Enter**.

```
1. Print Commands
1-3     Copy/Select
```

2. Press **Copy**. Your fax will print a list of all delayed commands in memory, showing the remote location, start time and type of command scheduled.

```
Print Commands
** Printing **
```

Print Stored Document

1. To print a document stored for delayed transmission without erasing it from memory, press **Program, 0, 8, Confirm/Enter, 2**.

```
2. Print Stored Doc.
1-3     Enter/Select
```

2. Press **Enter**.

```
Print Stored Doc.
Command Number:
```

3. Use the keypad to enter the number of the command for the document you need. Refer to a printed list of delayed commands (see "Print Commands"), if needed.

```
Print Stored Doc.
Command Number:      3
```

4. Press **Confirm/Enter**. The document in memory will be printed.

```
Print Stored Doc.
** Printing **
```

Erase Command

1. To delete a delayed command, press **Program**, **0**, **8**, **Confirm/Enter**, **3**.

```
3. Erase Commands
1-3      Enter/Select
```

2. Press **Confirm/Enter**.

```
Erase Commands
Command Number:
```

3. Use the numeric keypad to enter the number of the command to be erased. Refer to a printed list of delayed commands (see above), if needed.

```
Erase Commands
Command Number:      2
```

4. Press **Confirm/Enter**.

```
Erase Commands
** Erased  **
```
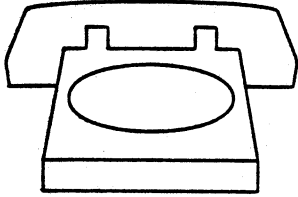
Before You Call...

Q: I have entered dashes when storing numbers in my fax machine's autodialer, but they don't appear on the LCD. Am I doing something wrong?

A: No. Your fax displays only what the fax dials, and since dashes aren't dialed, they won't appear on the LCD.

Q: I don't want to use P1 through P6 as programmable one-touch keys; instead, I would like to use them as regular one-touch keys. Is there a way I can do this?

A: Yes. See page 86 for more information.

Autodialer

Your fax stores up to 80 telephone numbers—50 speed-dial and 30 one-touch—in a battery-protected autodialer. For fax or voice calls, the fax puts your most-needed telephone numbers just a touch away.

Your fax also offers a special **Tone** key needed for some rotary telephone systems. If your telephone system requires rotary dialing signals, see page 88.

You can attach adhesive labels above your one-touch numbers. Just remove the clear seal, label your one-touch numbers and replace the seal.
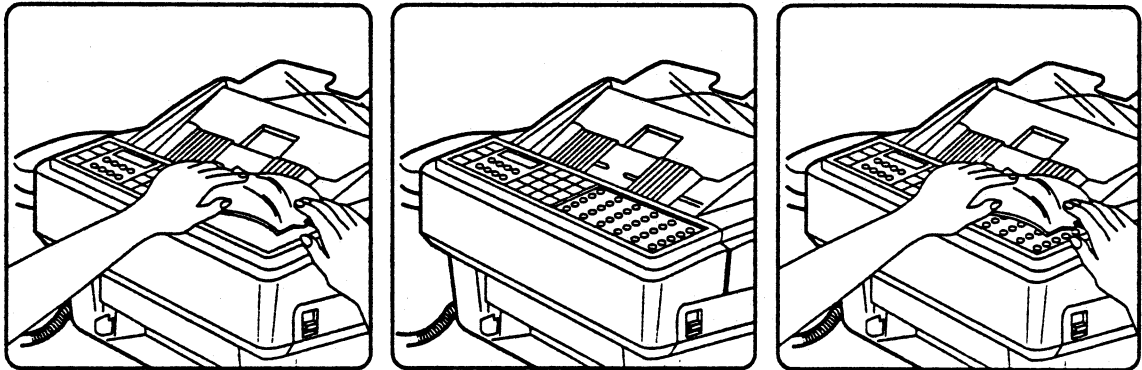
Set Speed-Dial Numbers

The 50 speed-dial numbers available for your fax are represented by the two-digit numbers 01 to 50 on your dialing keypad.

1. To enter a speed-dial number, press **Program, 0, 5, Confirm/Enter,**.

```
1. Set Speed Dial
1-3      Enter/Select
```

2. Press **Confirm/Enter.**

```
Speed Dial 01 to 50
Select and Press
```

3. Use the numeric keypad to enter the number of the speed-dial number needed. Remember to enter speed-dial numbers below 10 in two-digit form: 01, 02, 03, etc.

```
(01)
```

4. Then press **Confirm/Enter.**

```
(01)= No Stored
        Enter/Select
```

5. Press **Confirm/Enter** and use the numeric keypad to begin entering the telephone number needed. Your telephone number can include up to 40 characters.

```
(01) Phone Number
9-/1-214-403
```

6. To insert a dialing pause in the telephone number, press **Pause**. A hyphen and slash, "-/", will appear on the LCD. When your fax finds this combination while dialing, it will pause before completing the number. See page 38 for information on controlling the length of the pause.

7. To insert a dash in the number, press the dash key on the keypad. Adding a dash makes your numbers easier to read on reports and in the printed telephone directories, but does not change the way your unit dials the number entered.

```
(01) Phone Number
9-/1-214-403-3499
```

8. When the telephone number is entered, press **Confirm/Enter**.

```
(01)=Location ID
        Enter/Select
```

9. Press **Confirm/Enter** to enter a Location ID for the number just entered. The Location ID, up to 12 characters long, appears on the printed telephone directory to make finding the right number fast and easy.

```
_ ABCDEFGHIJ. 00
```

10. Use the arrow keys to highlight the first character of the Location ID. Then press **Confirm/Enter**.

```
_ KLMNOPQRST. 01
M
```

11. Continue using arrow keys and **Confirm/Enter** to enter the Location ID. When complete, press **Program**.

```
(01)=Group Number
        Enter/Select
```

12. If you do not want to include this speed-dial number in a call group, press **Mode/Select** and go to step 15. To enter the number in a call group, press **Confirm/Enter**. Call groups are used in broadcasting and sequential polling to speed fax communication with many remote units.

```
(01) Group Number
```

13. Use the numeric keypad to enter the call group or groups this speed-dial number should appear in. The fax offers up to five call groups, numbered 1 to 5. If entering more than one group number, press **Program** between numbers. A comma will appear on the LCD between group numbers.

```
(01) Group Number
1,3,4
```

14. When you have selected all the groups this speed-dial number should appear in, press **Confirm/Enter**.

```
Speed Dial 01 to 50
  Select and Press
```

15. Use the numeric keypad to select the next speed-dial number to enter, or press **Stop** to return to standby.

After a speed-dial number has been entered, you can modify the telephone number, Location ID or group numbers programmed by repeating these steps. When the information you want to change is displayed, press **Original/Cancel**. The information programmed will be deleted and you can enter new information as shown above.

Erase Speed-Dial

Use this feature to delete all speed-dial information from your autodialer.

1. To erase all speed-dial numbers from the autodialer, press **Program**, **0**, **5**, **Confirm/Enter**, **2**.

```
2. Erase Speed-Dial
1-3      Select/Cancel
```

2. Press **Original/Cancel**.

```
Erase Speed-Dial
Sure?    Select/Cancel
```

3. Press **Original/Cancel**. Press **Mode/Select** to prevent the erasure and return to standby with all information intact.

Print Speed-Dial

Keep a printed list of your speed-dial numbers nearby for reference. The printed listing includes the speed-dial number, Location ID, telephone number and group number.

1. To print the telephone directory, press **Program**, **0**, **5**, **Confirm/Enter**, **3**.

```
3. Print Speed-Dial
1-3      Copy/Select
```

2. Press **Copy**.

```
Print Speed Dial
** Printing **
```

One-Touch Keys
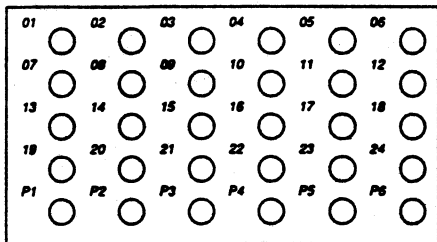
The 30 one-touch keys available in your fax are labelled **01 to 24** and **P1 to P6**. Use the setting below to enter telephone numbers for one-touch keys 01 to 24. See the section on programmable one-touch keys (see page 78) for information on entering keys P1 to **P6.**

1. To enter a one-touch number, press **Program, 0, 4, Confirm/Enter.**

```
1. Enter One-Touch
1-3     Enter/Select
```

2. Press **Confirm/Enter.**

```
One-Touch 1 to 24
   Select and Press
```

3. Press the one-touch key needed.

```
[01]= Not Stored
        Enter/Select
```

4. Press **Confirm/Enter** and use the numeric keypad to begin entering the telephone number needed. Your telephone number can include up to 40 characters.

```
[01] Phone Number
9-/1-214-403
```

5. To insert a dialing pause in the telephone number, press **Pause.** A hyphen and slash, "-/", will appear on the LCD. When your fax finds this combination while dialing, it will pause before completing the number. See page 38 for information on controlling the length of the pause.

6. To insert a dash in the number, press the dash key on the fax keypad. Adding a dash makes your numbers easier to read on reports and in the printed telephone directories, but does not change the way your unit dials the number entered.

```
[01] Phone Number
9-/1-214-403-3499
```

7. When the telephone number is entered, press **Confirm/Enter.**

```
[01]=Location ID
        Enter/Select
```

8. Press **Confirm/Enter** to enter a Location ID for the number just entered. The Location ID, up to 12 characters long, appears on the printed telephone directory to make finding the right number fast and easy.

```
_ ABCDEFGHIJ. 00
```

9. Use the arrow keys to highlight the first character of the Location ID. Then press **Confirm/Enter**.

```
 _ KLMNOPQRST. 01
 M
```

10. Continue using arrow keys and **Confirm/Enter** to enter the Location ID. When complete, press **Program**.

```
[01]=Group Number
        Enter/Select
```

11. If you do not want to include this one-touch key in a telephone call group, press **Mode/Select** and go to step 14. To enter the number in a call group, press **Confirm/Enter**. Call groups are used in broadcasting and sequential polling to speed fax communication with many remote units.

```
[01] Group Number
```

12. Use the numeric keypad to enter the call group or groups this one-touch key should appear in. The fax offers up to five call groups, numbered 1 to 5. If entering more than one group number, press **Program** between numbers. A comma will appear on the LCD between group numbers. **Note:** It is not necessary to press Program after you've entered the last group number.

```
[01] Group Number
1,3,4
```

13. When you have selected all the groups this one-touch key should appear in, press **Confirm/Enter**.

```
One-Touch 1 to 24
  Select and Press
```

14. Select the next one-touch key to enter, or press **Stop** to return to standby.

After a one-touch key has been entered, you can modify the telephone number, Location ID or group numbers programmed by repeating these steps. When the information you want to change is displayed, press **Original/Cancel**. The information programmed will be deleted and you can enter new information as shown above.

Erase One-Touch

Use this setting to delete all one-touch telephone numbers from your autodialer and erase the Location ID and group numbers assigned to each number.

1. Press **Program, 0, 4, Confirm/Enter, 2.**

```
2. Erase One-Touch
1-3     Select/Cancel
```

2. Press **Original/Cancel.**

```
Erase One-Touch
Sure?    Select/Cancel
```

3. To erase all one-touch information, press **Original/Cancel**. Press **Mode/Select** to prevent the erasure and return to standby.

Print One-Touch

Keep a printed list of your one-touch keys nearby. The printed listing includes the one-touch key, Location ID, telephone number and group number.

1. To print the directory, press **Program, 0, 4, Confirm/Enter, 3**.

```
3. Print One-Touch
1-3      Copy/Select
```

2. Press **Copy**.

```
Print One-Touch
** Printing **
```
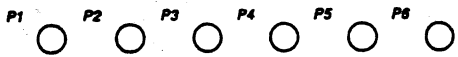
P1 ○ P2 ○ P3 ○ P4 ○ P5 ○ P6 ○ *Special Programmable Keys*

Six of the one-touch keys on your fax, P1 through P6, can be used as standard one-touch keys or as special programmable keys, to put the most powerful multi-step operations just a fingertip away.

These six programmable one-touch keys are great when you have a frequent need for special functions. If your office must transmit reports to several locations every day, for example, program one of the programmable one-touch keys for delayed broadcast to those locations. Then each day just insert your document, press the programmable one-touch and walk away: The fax will remember your instructions and send the report to each location at the time you specified.

You can program delayed transmission, relay broadcast initiation, SecureMail transmission, delayed polling and delayed database polling commands as shown on the following pages. If you don't need these special programmable options, you can use keys P1 through P6 for standard one-touch transmission. (See "One-Touch Transmission" later in this section.)

Program One-Touch

Use the setting below to reduce multi-step instructions to a single keystroke. The fax lets you select from delayed transmission, delayed broadcast, relay broadcast, Secure-Mail transmission, delayed polling, delayed database polling and sequential polling commands when entering a programmable one-touch key.

The first five steps to program these special keys are the same regardless of the specific command you need. The remaining steps vary based on the command you have chosen. The first five steps appear below. Steps 6 and beyond for each command appear on the pages that follow.

1. To enter a programmable function, press **Program, 1, 0, Confirm/Enter, 2**.

```
2. Program One-Touch
1-5      Enter/Select
```

2. Press **Confirm/Enter**.

```
Program Key P1 to P6
  Select and Press
```

3. Use the keypad to select the programmable key you wish to modify.

```
[P1]= Not Stored
          Enter/Select
```

4. Press **Confirm/Enter**.

```
1. Delay Transmission
1-7      Enter/Select
```

5. Now press **Mode/Select** to choose the type of command you need.

If you select   **See page**

  Delayed transmission   79
  Broadcast/Delayed broadcast   80
  Relay broadcast initiation   81
  SecureMail transmission   82
  Delayed polling   83
  Delayed database polling   84
  Sequential polling   85

Delayed Transmission

For an explanation of the uses and benefits of delayed transmission, see page 56.

Steps 1 through 5 appear on page 78.

```
1. Delay Transmission
1-7      Enter/Select
```

6. Press **Confirm/Enter**.

```
Memory Transmission
          Enter/Select
```

7. If you want the transmission to take place from the document feeder, press **Mode/Select**. If you want transmission from memory, press **Confirm/Enter**.

```
Delay Transmission
Number of Pages:
```

8. Use the numeric keypad to enter the number of pages you will send. To send a different number of pages each time, just press **Confirm/Enter** to tell the fax to accept as many pages as inserted in the feeder.

9. Press **Confirm/Enter**.

```
Delay Transmission
Enter Fax Number
```

10. Enter a one-touch key or press **Speed Dialer** and enter a two-digit speed-dial number. Or dial direct using the numeric keypad.

```
[01]
```

11. Press **Confirm/Enter**. The current time will be displayed.

```
Delay Transmission
Hour:    14:55
```

12. Press **Confirm/Enter** without changing the time to instruct your fax to begin the programmable function whenever you press the program one-touch key. Or use the numeric keypad to enter a specific hour for the delayed transmission. Then press **Confirm/Enter** and enter the minute.

```
Delay Transmission
Minute: 22:30
```

13. When the time has been entered, press **Confirm/Enter**.

```
Delay Transmission
** Completed **
```

Delayed Broadcast

For an explanation of the uses and benefits of delayed broadcasting, see page 58.

Steps 1 through 5 appear on page 78.

```
2. Delayed Broadcast
1-7      Enter/Select
```

6. Press **Confirm/Enter**.

```
Delayed Broadcast
Number of Pages:
```

7. Use the numeric keypad to enter the number of pages you will broadcast. To broadcast a different number of pages each time, just press **Confirm/Enter** to tell the fax to accept all pages inserted in the feeder.

```
Delayed Broadcast
Enter Fax Number
```

8. Enter the locations to which you will broadcast. Press **Speed Dialer** and a two-digit code to enter a speed-dial number. Press the pound key (#) and a single-digit number to enter a call group. Or press a one-touch key. You can enter up to five numbers for the broadcast. Press **Program** between numbers.

```
Delayed Broadcast
(01),G4,[23]
```

9. When you have entered the telephone numbers for the broadcast, press Confirm/Enter. The current time will be displayed.

```
Delayed Broadcast
Hour:   14:55
```

10. Press Confirm/Enter without changing the time to instruct your fax to begin the programmable function whenever you press the program one-touch key. Or use the numeric keypad to enter a specific hour for the broadcast. Then press Confirm/Enter and enter the minute for the broadcast.

```
Delayed Broadcast
Minute: 22:30
```

11. When the time has been entered, press Confirm/Enter.

```
Delayed Broadcast
** Completed **
```

Relay Broadcast

For an explanation of the uses and benefits of relay broadcast initiation, see page 60.

Steps 1 through 5 appear on page 78.

```
3. Relay Broadcast
1-7       Enter/Select
```

6. Press Confirm/Enter.

```
Memory Transmit
          Enter/Select
```

7. If you want the broadcast initiation to take place from the document feeder, press Mode/Select. If you want to send the document from memory, press Confirm/Enter.

```
Relay Broadcast
Relay Number:
```

8. Use the keypad to enter the group number for the relay portion of the broadcast. Remember that this group must already be programmed at the remote Murata fax to which you are transmitting. See page 58 for information.

```
Relay Broadcast
Relay Number:        5
```

9. Then press Confirm/Enter.

```
Relay Broadcast
Number of Pages:
```

10. Use the numeric keypad to enter the number of pages included in the relay broadcast. To broadcast a different number of pages each time, press **Confirm/Enter**.

```
Relay Broadcast
Enter Fax Number
```

11. Press **Speed Dialer** and a two-digit code to enter a speed-dial number or press a one-touch key. Or dial direct using the numeric keypad.

```
Relay Broadcast
[07]
```

12. When the telephone number for the remote unit has been entered, press **Confirm/Enter**. The current time will be displayed.

```
Relay Broadcast
Hour: 14:55
```

13. Press **Confirm/Enter** without changing the time to instruct your fax to begin the programmable function whenever you press the program one-touch key. Or use the numeric keypad to enter a specific hour. Then press **Confirm/Enter** and enter the minute.

```
Relay Broadcast
Minute: 22:30
```

14. When the time has been entered, press **Confirm/Enter**.

```
Relay Broadcast
** Completed **
```

Transmit SecureMail

For an explanation of the uses and benefits of SecureMail, see page 61.

Steps 1 through 5 appear on page 78.

```
4. Trans.SecureMail
1-7      Enter/Select
```

6. Press **Confirm/Enter**.

```
Memory Transmission
          Enter/Select
```

7. If you want the SecureMail transmission to take place from the document feeder, press **Mode/Select**. If you want to transmit from memory, press **Confirm/Enter**.

```
Trans.SecureMail
Mailbox Number:
```

8. Use the numeric keypad to enter the mail box number for the transmission. Remember that this mail box must already exist at the remote Murata fax to which you are transmitting. See page 61 for more information.

```
Trans.SecureMail
Mailbox Number:      9
```

9. Then press **Confirm/Enter**.

```
Trans.SecureMail
Number of Pages:
```

10. Use the numeric keypad to enter the number of pages included in the SecureMail transmission. To transmit a different number of pages each time, press **Confirm/Enter**.

```
Trans.SecureMail
Enter Fax Number
```

11. Press **Speed Dialer** and a two-digit code to enter a speed-dial number or press a one-touch key. Or dial direct using the numeric keypad.

```
Trans.SecureMail
[07]
```

12. When the telephone number for the remote unit has been entered, press **Confirm/Enter**. The current time will be displayed.

```
Trans.SecureMail
Hour:    14:55
```

13. Press **Confirm/Enter** without changing the time to instruct your fax to begin the programmable function whenever you press the program one-touch key. Or use the numeric keypad to enter a specific hour for the transmission. Then press **Confirm/Enter** and enter the minute for the transmission.

```
Trans.SecureMail
Minute: 22:30
```

14. When the time has been entered, press **Confirm/Enter**.

```
Trans.SecureMail
** Completed **
```

Delayed Polling

For an explanation of the uses and benefits of polling, see page 65.

Steps 1 through 5 appear on page 78.

```
5. Delayed Polling
1-7      Enter/Select
```

6. Press **Confirm/Enter**.

```
Delayed Polling
Enter Fax Number
```

7. Press **Speed Dialer** and a two-digit code to enter a speed-dial number or press a one-touch key. Or dial direct using the numeric keypad.

```
Delayed Polling
[07]
```

8. When the telephone number for the remote unit has been entered, press **Confirm/Enter**. The current time will be displayed.

```
Delayed Polling
Hour: 14:55
```

9. Press **Confirm/Enter** without changing the time to instruct your fax to begin the programmable function whenever you press the program one-touch key. Or use the numeric keypad to enter the hour for polling. Then press **Confirm/Enter** and enter the minute.

```
Delayed Polling
Minute: 22:30
```

10. When the time has been entered, press **Confirm/Enter**.

```
Delayed Polling
** Completed **
```

Database Polling

For an explanation of the uses and benefits of database polling, see page 66.

Steps 1 through 5 appear on page 78.

```
6. Delayed DB Polling
1-7      Enter/Select
```

6. Press **Confirm/Enter**.

```
Delayed DB Polling
Enter Fax Number
```

7. Press **Speed Dialer** and a two-digit code, or press a one-touch key.

```
Delayed DB Polling
[07]
```

8. When the telephone number for the remote unit has been entered, press **Confirm/Enter**.

```
Delayed DB Polling
Database Number:
```

9. Use the keypad to enter the database files needed. Press **Program** between file numbers. You can request up to six files on a single telephone call.

```
Delayed DB Polling
Database Number:    3,7
```

10. When you have requested all the database files needed, press **Con-firm/Enter**. The current time will be displayed.

```
Delayed DB Polling
Hour:   14:55
```

11. Press **Confirm/Enter** without changing the time to instruct your fax to begin the programmable function whenever you press the program one-touch key. Or use the numeric keypad to enter the hour for database polling. Then press **Confirm/Enter** and enter the minute.

```
Delayed DB Polling
Minute: 22:30
```

12. When the time has been entered, press **Confirm/Enter**.

```
Delayed DB Polling
** Completed **
```

Sequential Polling

For an explanation of the uses and benefits of sequential polling, see page 67.

Steps 1 through 5 appear on page 78.

```
7. Sequential Polling
1-7        Enter/Select
```

6. Press **Confirm/Enter**.

```
Sequential Polling
Enter Fax Number
```

7. Enter the locations from which you will poll. Press **Speed Dialer** and a two-digit code to enter a speed-dial number. Press the pound key (#) and a single-digit number to enter a call group. Press a one-touch key. Or enter a phone number using the numeric keypad. You can enter up to five numbers for the polling operation. Press **Program** between numbers.

```
Sequential Polling
(01),G3,[57]
```

8. When the telephone numbers have been entered, press **Confirm/Enter**. The current time will be displayed.

```
Sequential Polling
Hour: 14:55
```

9. Press **Confirm/Enter** without changing the time to instruct your fax to begin the programmable function whenever you press the program one-touch key. Or use the numeric keypad to enter the hour for polling. Then press **Confirm/Enter** and enter the minute.

```
Sequential Polling
Minute: 22:30
```

10. When the time has been entered, press **Confirm/Enter**.

```
Sequential Polling
** Completed **
```

One-Touch Transmission

If you do not plan to use **P1** through **P6** for special programmable functions, use the setting below to use them as standard one-touch keys.

1. To enter a one-touch number, press **Program, 1, 0, Confirm/Enter**.

```
1. Enter One-Touch
1-5      Enter/Select
```

2. Press **Confirm/Enter**.

```
Program Key P1 to P6
  Select and Press
```

3. Press the desired one-touch key.

```
[P1]= Not Stored
          Enter/Select
```

4. Press **Confirm/Enter** and use the numeric keypad to begin entering the telephone number. The telephone number can include up to 40 characters.

```
[P1] Phone Number
9-/1-214-403
```

5. To insert a dialing pause in the telephone number, press **Pause**. A hyphen and slash, "-/", will appear on the LCD. When your fax finds this combination while dialing, it will pause before completing the number. See page 38 for information on controlling the length of the pause.

6. To insert a dash in the number, press the dash key on the fax keypad. Adding a dash makes your numbers easier to read in the printed telephone directories, but does not change the way your unit dials the number entered.

```
[P1] Phone Number
9-/1-214-403-3499
```

7. When the telephone number is entered, press **Confirm/Enter**.

```
[P1]=Location ID
          Enter/Select
```

8. Press **Confirm/Enter** to enter a Location ID for the number just entered. The Location ID, up to 12 characters long, appears on the printed telephone directory to make finding the right number fast and easy.

```
_ ABCDEFGHIJ. 00
```

9. Use the arrow keys to highlight the first character of the Location ID. Then press **Confirm/Enter**.

```
_ KLMNOPQRST. 01
M
```

10. Continue using arrow keys and **Confirm/Enter** to enter the Location ID. When complete, press **Program**.

```
[P1]= Group Number
         Enter/Select
```

11. If you do not want to include this key in a call group, press **Mode/Select** and go to step 14. To enter the number in a call group, press **Confirm/Enter**. Call groups are used in broadcasting and sequential polling to speed fax communication with many remote units.

```
[P1] Group Number
```

12. Use the numeric keypad to enter the call group or groups this key should appear in. The fax offers up to five call groups, numbered 1 to 5. Press **Program** between numbers. A comma will appear on the LCD between group numbers.

```
[P1] Group Number
1,3,4
```

13. When you have selected all the groups this one-touch key should appear in, press **Confirm/Enter**.

```
Program Key P1 to P6
   Select and Press
```

14. Select the next one-touch key to enter, or press **Stop** to return to standby.

After a key has been entered, you can modify the telephone number, Location ID or group numbers programmed by repeating these steps. When the information you want to change is displayed, press **Original/Cancel**. The information programmed will be deleted and you can enter new information as shown above.

Erase Programmable One-Touch Keys

Use these settings to erase the programmable one-touch keys.

To erase programmable keys being used for standard one-touch transmission:

1. Press **Program, 1, 0, Confirm/Enter, 3**.

```
3. Erase One-Touch
1-5     Select/Cancel
```

2. Press **Original/Cancel.**

```
Erase One-Touch
Sure?   Select/Cancel
```

3. Press **Original/Cancel** to delete one-touch transmission information. Press **Mode/Select** to return to standby without deleting the information.

To erase programmable keys used for programmable one-touch functions:

1. Press **Program, 10, Confirm/Enter, 4.**

```
3. Erase Pr. One-Touch
1-5        Enter/Cancel
```

2. Press **Original/Cancel.**

```
Erase Pr. One-Touch
Sure?   Select/Cancel
```

3. Press **Original/Cancel** to delete programmable one-touch information. Press **Mode/Select** to return to standby without deleting the information.

Print Programmable One-Touch Keys

Keep a report of your programmable one-touch keys nearby for handy reference. The printed report lists each key in use and the transmission or programmable one-touch function assigned to it.

1. To print a list of programmable one-touch keys in use, press **Program, 1, 0, Confirm/Enter, 5.**

```
5. Print Pr. One-Touch
1-5       Copy/Select
```

2. Press **Copy** to print the report.

```
Print Pr. One-Touch
** Printing **
```

Tone Key and Rotary-Dial Systems

When you selected the phone line type for your fax (see page 29), you instructed it to use either tone or rotary signals when dialing.

If your local telephone system or phone line requires rotary dialing signals but your long distance company requires tone access codes, the fax machine's **Tone** key lets you mix both types of signals in your one-touch or speed-dial numbers. Use of the **Tone** key is not necessary on touch-tone telephone systems.

1. To switch from rotary to tone dialing signals, begin entering your telephone number as a one-touch, speed-dial or programmable one-touch key as shown on the pages above. A one-touch key is shown below as an example:

```
[01] Tel. Number
1-214-403-3499
```

2. When you reach the point at which you must switch to tone signals, enter a dialing pause, "-/", as shown on page 74. Then press **Tone**. A dash and exclamation point will appear on your screen.

```
[01] Tel. Number
1-214-403-3499-/-!
```

3. Now enter the numbers that must be dialed using tone signals. Although your LCD displays just 20 characters, you can enter up to 40 characters.

```
[01] Tel. Number
214-403-3499-/-!123
```

4. Finish entering the one-touch, speed-dial or programmable one-touch key. In use, your fax will dial the first part of the telephone number (in this example, "1-214-403-3499") with rotary signals, then pause and switch to tone signals for the rest of the number ("123" in the example above).

Software Switches

Some special features in your fax are available by selecting soft dip switches—on/off switches in the software.

Use care when making these settings, because it is possible to change or prevent proper fax operation with an incorrect switch setting. If you think you made an incorrect setting, call the Murata Customer Support Center (see page 122). You can also use the clear memory command (see page 48) to instantly return all dip switches to their factory settings, but this command deletes all user information—like TTI, Subscriber ID and autodialer entries—from your unit's memory.

Add to Document Length for TTI

Your fax machine includes a special feature that serves as a courtesy to the owners of the plain-paper fax machines with which you communicate.

A TTI adds extra length to a transmitted page. This is not a concern for users of thermal fax machines that print on a roll. However, any transmitted document that's longer than a letter-sized sheet requires a plain-paper unit to print a second page.

To prevent the extra length required for your TTI from causing plain-paper fax machines to print a second page, your fax machine normally deletes a very small portion of the top of every image transmitted. The top 1/8 inch of your document is not transmitted and your TTI and Subscriber ID are sent in its place.

To cancel this feature, use the setting below. Remember that cancelling this feature may cause plain-paper fax machines to print two pages for each page you send.

To enter information for your fax:

In most sections of this book you will be instructed to enter information for fax commands and user settings. An example of how to enter (or program) information or commands follows:

To Print the User Settings

1. Press **Program, 0, 9, Confirm/Enter, 1, 7.**

What it means:

Program = Press Program key.

0, 9 = Enter using the machine's numeric keypad.

Confirm/Enter = Press Confirm/Enter key.

1, 7 = Enter using the machine's numeric keypad.

1. Press **Program, *, 2.**

```
Set Parameter
        Enter/Select
```

2. Press **Confirm/Enter.**

```
Set Parameter
SOFT DIP 0 00000000
```

3. Press **Mode/Select** 1 time to reach dip switch 1.

```
Set Parameter
SOFT DIP 1 01000000
```

4. Press the right arrow 1 time.

5. Enter a "0" using the numeric keypad.

```
Set Parameter
SOFT DIP 1 00000000
```

5. Press **Confirm/Enter**.

```
Set Parameter
SOFT DIP 2 10100000
```

6. Press **Stop** to return to standby.

To return to the factory setting, enter a "1" in step 5 above.

Cancel TTI

Your Transmit Terminal Identifier and Subscriber ID normally appear at the top of each document you send. Use the software setting below to transmit documents without these features.

1. Press **Program, *, 2**.

```
Set Parameter
          Enter/Select
```

2. Press **Confirm/Enter** 2 times to reach dipswitch 2.

```
Set Parameter
SOFT DIP 2   10100000
```

3. Enter a "0" using the numeric keypad.

```
Set Parameter
SOFT DIP 2   00100000
```

5. Press **Confirm/Enter**.

```
Set Parameter
SOFT DIP 3   11010000
```

6. Press **Stop** to return to standby.

To transmit documents with the TTI on, enter a "1" in step 3 above.

Unlimited Page Length: Reception

A sensor in your fax stops reception if it ever detects a single page longer than about 10 feet. This sensor is designed to detect paper jams at the remote fax machines that transmit to your unit. These jams could cause you to waste paper and tie up your fax machine's telephone line.

If you must receive very long uncut pages, like medical strip charts or water well logs, use the setting below to disable this sensor. Because your fax uses cut-sheet paper, the message will print out on several pages.

Note: The Print 2nd Page feature must be turned on to use this feature. For more information on Print 2nd Page, see the Set Reduction section beginning on page 46.

1. Press **Program, *, 2**.

```
Set Parameter
          Enter/Select
```

2. Press **Confirm/Enter**.

```
Set Parameter
SOFT DIP 0  00000000
```

3. Press **Mode/Select** 3 times to reach dip switch 3.

```
Set Parameter
SOFT DIP 3  11010000
```

4. Enter a "0" using the numeric keypad.

```
Set Parameter
SOFT DIP 3  01010000
```

5. Press **Confirm/Enter**.

```
Set Parameter
SOFT DIP 4 00000000
```

6. Press **Stop** to return to standby.

To return to the factory setting, enter a "1" in step 4 above.

Unlimited Page Length: Transmission

Your fax transmits pages up to 14.3 inches long. This length limit applies only to **individual pages**: Documents you send can include an unlimited number of individual pages.

If you must transmit very long unbroken pages, like medical strip charts or water well logs, use the setting below to disable your fax's paper-jam sensor.

1. Press **Program, *, 2**.

```
Set Parameter
          Enter/Select
```

2. Press **Confirm/Enter**.

```
Set Parameter
SOFT DIP 0  00000000
```

3. Press **Mode/Select** 3 times to reach dip switch 3.

```
Set Parameter
SOFT DIP 3  11010000
```

4. Press the right arrow key once.

```
Set Parameter
SOFT DIP 3  11010000
```

5. Enter a "0" using the numeric keypad.

```
Set Parameter
SOFT DIP 3  10010000
```

6. Press **Confirm/Enter.**

```
Set Parameter
SOFT DIP 4  00000000
```

7. Press **Stop** to return to standby.

To return to the factory setting, enter a "1" in step 5 above.

Switch to Fax Signals

The switch-to-fax feature lets you transfer an incoming fax call from the phone physically connected to the "Phone 2" jack back to the fax for printing (see page 50).

Your unit initially requires you to press "6" two times on the phone handset to send the call back. Use the setting below to change that setting to four times.

Although it is unlikely, it is possible for the human voice to duplicate the signal frequencies of the "6" on your handset. If this happens, your fax could disconnect the line during communication. Changing the setting below requires you to press "6" four times to send a call back to the fax, making accidental disconnection even more unlikely.

1. Press **Program, *, 2.**

```
Set Parameter
          Enter/Select
```

2. Press **Confirm/Enter.**

```
Set Parameter
SOFT DIP 0  00000000
```

3. Press **Mode/Select** 18 times to reach dip switch I.

```
Set Parameter
SOFT DIP I  00001000
```

4. Press the right arrow key 5 times.

```
Set Parameter
SOFT DIP I  00001000
```

5. Enter a "1" using the numeric keypad.

```
Set Parameter
SOFT DIP I  00001100
```

6. Press **Confirm/Enter.**

```
Set Parameter
SOFT DIP J  00000000
```

7. Press **Stop** to return to standby.

To return to the factory setting, enter a "0" in step 5 above.

Select Auto Answer by Telephone

If you forget to set your fax to automatic answer when you leave the office, the feature below lets you call from any telephone in the world and turn the auto receive function on.

To make use of this option, follow the steps below. Then, if you forget to choose automatic answer, just call your fax machine from any phone and let your fax ring 22 or more times. Your fax will switch over so it answers subsequent calls automatically.

1. Press **Program, *, 2.**

```
Set Parameter
          Enter/Select
```

2. Press **Confirm/Enter.**

```
Set Parameter
SOFT DIP 0   00000000
```

3. Press **Mode/Select** 25 times to reach dip switch P.

```
Set Parameter
SOFT DIP P   00100110
```

4. Press the right arrow key 3 times.

```
Set Parameter
SOFT DIP P   00100110
```

5. Enter a "1" using the numeric keypad.

```
Set Parameter
SOFT DIP P   00101110
```

6. Press **Confirm/Enter.**

```
Set Parameter
SOFT DIP Q   00000000
```

7. Press **Stop** to return to standby.

To return to the factory setting, enter a "0" in step 5 above.

Print Counter

This setting lets you keep track of the number of documents your fax has printed, scanned, transmitted and copied.

When this feature is activated, an "S" (Scan) appears on your Transmit Journal. This records the number of pages that pass through the scanner, including pages you transmit and pages you scan in for memory transmission. A "T" (Transmit) represents the number of pages you have transmitted.

An "R" (Receive) keeps track of received pages.

A "P" (Print) will appear on your Receive Journal, and indicates the total number of pages printed, including transmissions, copies, Activity Journals and confirmation reports.

These numbers will reset to zero when you clear your machine's memory or when the number 50,000 is reached.

To turn the print counter on:

1. Press **Program**, *, **2**.

```
Set Parameter
        Enter/Select
```

2. Press **Confirm/Enter**.

```
Set Parameter
SOFT DIP 0   00000000
```

3. Press **Mode/Select** 27 times to reach dip switch R.

```
Set Parameter
SOFT DIP R   00100000
```

4. Enter a "1" using the numeric keypad.

```
Set Parameter
SOFT DIP R   10100000
```

5. Press **Confirm/Enter**.

```
Set Parameter
SOFT DIP S   00101010
```

6. Press **Stop** to return to standby.

To return to the factory setting, enter a "0" in step 4 above.

Voice Prompt Delay

The voice prompt is played when you have your fax set to the Tel./Fax Ready mode (see page 26) and allow the fax machine to answer an incoming call. Most automatic fax machines calling your fax will not be hampered by this voice prompt.

If callers tell you their fax machines are unable to send messages when you have the voice prompt in use, use the setting below to add a delay before your fax begins the prompt. This delay makes it easier for these units to send messages to your fax.

1. Press **Program**, *, **2**.

```
Set Parameter
        Enter/Select
```

2. Press **Confirm/Enter**.

```
Set Parameter
SOFT DIP 0   00000000
```

3. Press **Mode/Select** 28 times to reach dip switch S.

```
Set Parameter
SOFT DIP S  00101010
```

4. Press the right arrow key 1 time.

```
Set Parameter
SOFT DIP S  00101010
```

5. Enter a "1" using the numeric keypad.

```
Set Parameter
SOFT DIP S  01101010
```

6. Press **Confirm/Enter**.

```
Set Parameter
SOFT DIP T  00000010
```

7. Press **Stop** to return to standby.

To return to the factory setting, enter a "0" in step 5 above.

Rotary Dialing Signals

Your fax machine's autodialer initially produces tone dialing signals. If your telephone system requires rotary signals, use the setting on page 29 to select the rotary option.

Your fax initially provides rotary signals at 10 pulses per second. If your telephone system requires 20 pps signals, use the setting below. If you do not know the dialing signals required by your phone system, call your telecommunications company.

1. Press **Program**, *, 1.

```
Set Parameter
        Enter/Select
```

2. Press **Confirm/Enter**.

```
Set Parameter
SYS DIP 1 00001000
```

3. Press the right arrow key 3 times.

```
Set Parameter
SYS DIP 1 00001000
```

4. Enter a "1" using the numeric keypad.

```
Set Parameter
SYS DIP 1 00010000
```

5. Press **Confirm/Enter.**

```
Set Parameter
SYS DIP 2 00000000
```

6. Press **Stop** to return to standby. To return to the factory setting, enter a "0" in step 4.

Set Scanner Width

The default setting for B4-width paper is 9.9 inches. This scan width accommodates most wide documents you transmit, and is accessed using the software's User Settings (see page 34).

If you frequently transmit wide documents, you may want to change the B4 default setting from 9.9 to 10.1 inches.

To change the B4 setting from 9.9 to 10.1 inches:

1. Press **Program, *, 1, Confirm/Enter.**

```
Set Parameter
SYS DIP 1 00000000
```

2. Press **Mode/Select** two times.

```
Set Parameter
SYS DIP 3 10001000
```

3. Enter a "0" using the numeric keypad.

```
Set Parameter
SYS DIP 3 00001000
```

4. Press **Enter.**

```
Set Parameter
SYS DIP 4 00001100
```

5. Press **Stop** to return to standby.

```
FAX READY
Feb 24, 89 23:16
```
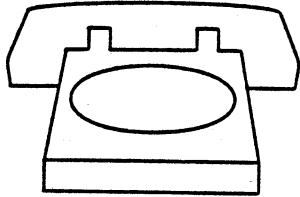
Before You Call...

Q: Sometimes a phone number appears in the Remote Location column of my Activity Journal, and sometimes a company name appears. Why?

A: When your fax communicates with another Murata-manufactured unit, the TTI or company name (see page 42) in the remote unit is saved in your Activity Journal. When you communicate with non-Murata units, the Subscriber ID or telephone number is saved.

Q: How do I clear my Activity Journal?

A: There is no need to clear your journal: The Activity Journal displays only the 25 most recent transmissions and receptions. When your fax reaches the 25-transaction limit, it will drop the oldest entry and add the most recent to the bottom of the journal.

Activity Journal

<table>
<tr>
<td>

To enter information for your fax:

In most sections of this book you will be instructed to enter information for fax commands and user settings. An example of how to enter (or program) information or commands follows:

To Print the User Settings

1. Press Program, 0, 9, Confirm/Enter, 1, 7.

What it means:

Program = Press Program key.

0, 9 = Enter using the machine's numeric keypad.

Confirm/Enter = Press Confirm/Enter key.

1, 7 = Enter using the machine's numeric keypad.

</td>
<td>

Just as a checkbook records your daily financial transactions, your Activity Journal records daily fax activities, allowing you to keep track of your important communications.

Your 25 most recent transmissions and receptions print as two separate journals, either automatically or any time you wish. Information on the Activity Journal includes transmission mode, number of pages sent, result and any error messages encountered.

You can also choose to print out the number of pages your printer has transmitted and received so you can keep track of fax use. See page 95 for information on printing the print counter with your Activity Journal.

Because the Activity Journal breaks down your fax communication, it can help you with recordkeeping: With it you can track fax calls, evaluate patterns of fax use, and identify communication billable to clients or vendors.

To instruct your fax to print an Activity Journal after every 25 transactions, see page 36. To print a journal at any time:

</td>
</tr>
</table>

1. Press Program, 0, 7.

```
7. Print Journal
01-12   Copy/Select
```

2. Press Copy.

```
Print Journal
** Printing **
```

Your TTI   Your Subscriber ID

```
Product Development          1-214-403-3499          Feb 26.89   14:55
                    ①

              Transmit  Journal
②            ③              ④        ⑤        ⑥      ⑦      ⑧          ⑨
No.  | Remote Location | Mode | Start | Time | Pages | Result | Note

              Receive  Journal
No.  | Remote Location | Mode | Start | Time | Pages | Result | Note
```

Activity Journal

1. **Period**—Records the start and end of the time period covered by the Activity Journal. The Activity Journal is printed manually or after 25 transmissions or receptions, not after a set number of days.

2. **No.**—Each fax transmission or reception is numbered, with the series beginning at 001 each day.

3. **Location**—Information identifying the sender or receiver is recorded in this space. The information printed in this column is sent to your fax by the remote unit and can be programmed by the remote operator as desired, so it may not be the same telephone number or business name you entered in your autodialer. When communicating with Murata-manufactured fax machines, the remote unit's TTI will be recorded here. When communicating with other fax machines, the Subscriber ID will be printed.

4. **Mode**—Records the resolution of the transmission or reception.

5. **Start**—The first two-digit number in this column shows the day a fax transaction occurred. For example, 03 means the transaction took place on the third day of the month. Use the period field at the top of each journal to determine the month (see above).

The entry after the comma is the time the transaction took place. The time is recorded on a 24-hour clock, so an entry of 15:00 means the transmission or reception began at 3:00 p.m.

6. **Time**—Records the length of each transaction, from the time the phone connection is made to the time the last page finishes transmitting or receiving. This entry helps you keep track of phone costs.

7. **Pages**—Records the number of pages transmitted or received.

8. **Result**—Shows the outcome of a transmission or reception. If an error occurs, the error code is listed here.

9. **Note**—Tells the operator information about special operations. A fax transmission made using the handset, for example, is shown as "Manual".

When "Location" Data is Missing or Wrong

If the Location column does not record the telephone number or business name you expected to see:

1. There may not be one programmed at the remote unit. The telephone number and TTI are optional on most units, and may not have been programmed by the operator of the remote fax. Communication with these units will record a "G3" or "G2" on your journal, showing you were communicating with a Group 3 or Group 2 fax.

2. Since these fields are optional, users can enter any information they want into them—even blank spaces. It is possible the Subscriber ID entered by the remote operator, for example, is not the same number your unit dialed to send the fax.

3. Many new home and small-office fax machines do not offer a programmable telephone number or TTI. Communication with these units will record a "G3" on your journal, showing you were communicating with a Group 3 fax.

4. The transaction may be cut off before the phone number and TTI can be exchanged. In such cases, your Activity Journal will usually show an error message showing the communication was not complete.

5. Poor telephone lines can sometimes block the transmission of the Subscriber ID and TTI.

6. A few fax manufacturers do not follow the standard for Subscriber ID and TTI data. In these cases, information appearing in your Location column can be garbled and unreadable.

Common Questions

Installation

Q: How do I install my fax so it can work with my answering machine?

A: Your answering machine's telephone must be connected to your fax machine's Phone 2 jack.

Q: I tried to install my printer drum, but I feel like I'm forcing it into the slot. What am I doing wrong?

A: You probably have not opened the drum cover. See page 17 for instructions on how to open the drum cover. When opening the drum cover, be careful not to scratch the drum's surface.

Q: I inserted the contents of my toner cartridge and a "2" appeared in the window on the left. What does this number mean?

A: The "2" in the toner indicator indicates you have added one toner cartridge. Add only one toner cartridge at a time.

Q: I followed the instructions for installing paper in my fax machine's paper cassette tray, but I keep getting paper jams. What's the problem?

A: Perhaps you have installed paper that's too thick or too thin. Your fax accepts regular-weight copier paper. fax.

Q: How do I know my toner unit and drum are installed correctly?

A: Make sure to carefully follow the instructions on installation beginning on page 12. Proper installation of printer components is essential to smooth operation of your fax.

Answering Device

Q: Can I use my fax machine and an answering machine together?

A: Yes. Murata facsimile machines with the automatic voice/fax switch let you connect your answering machine to the fax machine's "Phone 2" jack for perfect side-by-side operation.

When used with an answering machine attached, the Murata fax listens quietly on the line as you or the answering machine answer the call. If the call is from a person, your fax will not interfere and you and your callers won't know it's there. If your fax detects transmission tones from a remote unit, however, it will come on the line—disconnecting the handset or answering machine—and print the incoming message.

The only time your fax will answer the line before your answering machine is when your answering machine is broken or for some other reason cannot respond: After seven rings, your fax machine will answer the call and attempt to begin fax communication.

Q: How should I modify my answering machine message when I use it with my fax machine?

A: Your fax listens quietly on the line whenever an answering machine connected to the fax's "Phone 2" jack answers a call. When your fax detects transmission signals from a remote unit, it immediately disconnects the answering machine and begins fax reception.

When you record your answering machine message, be sure to tell callers that your fax is monitoring the line and that callers with fax messages can begin their transmissions immediately.

Here is a suggested message you can modify to your own need:

Hello. You have reached (your business name or telephone number). We can't come to the phone now, but this line has been answered by a fax and an answering machine. If you would like to send a fax, press Start to transmit now. If you would like to leave a message, wait for the beep. Thank you.

Q: Can a caller leave both voice and fax messages on the same call?

A: Yes. Modify your answering machine message to explain that callers can leave a voice message on your answering machine, then press Start to begin their fax transmission. Your Murata fax will detect the switch from voice to fax and will come on the line to print the message.

Q: My fax rings and the LCD shows "CALLED", but a fax message never comes through. What's wrong with my machine?

A: The caller may have dialed the wrong number, then hung up. Also, if you're using an answering device or a second telephone with your fax, make sure it's properly set up to handle incoming calls (see pages 26 and 27).

First check to make sure your answering device is connected to the Phone 2 jack and the fax is set for Ans/Fax Ready. If your outgoing message is over 12 seconds long, and if you have your answering device set to answer after more than two rings, it's likely the transmitting fax will "time out" before it hears tones from your machine. Most transmitting fax machines wait for between 30 and 45 seconds to hear receiving tones before they disconnect.

To ensure that you receive fax transmissions, change your outgoing message so it is fewer than 12 seconds long, and set your answering machine to answer after 2 rings. Both measures will help to cut down on this disconnect time.

Q: I have an answering machine connected to my fax. My fax is set to answer after two rings, but it doesn't answer until after seven rings. What should I do?

A: When your fax is set to Ans/Fax, your fax waits for the answering machine to answer the call. If the answering machine is not set up to answer after a specified number of rings your fax will pick up the call after the seventh ring. Make sure you set your answering machine to answer after one or two rings.

User Settings

Q: I selected Receive Confirmation Report when I set my communication result; however, my fax prints out Transmit Confirmation Reports. What happened?

A: Your machine will print out an RCR only if it is communicating with another Murata-manufactured machine. Your machine prints a TCR when it communicates with a non-Murata fax. See page 33 for more information.

Q: I transmitted an 11-inch-wide document. The remote operator called me and said part of the image was chopped off. What can I do to prevent this?

A: You need to adjust your fax machine's scanning width from 8.5 inches to 9.9 inches. See page 34 for more information. For extra-wide documents, change your scan width to 10.1 inches. See page 98 for more information.

Serial Number

Q: Where is the serial number on my fax?

A: Look on the back panel of your fax. You will see a label with a bar code printed on it. The last eight numbers form your serial number (see page 122).

Transmission

Q: Sometimes my fax machine transmits very slowly. Is there any way to speed transmission time?

A: Your fax can transmit at 9600 bps, the fastest transmission possible for a Group 3 fax machine. Sometimes, however, it must slow down to compensate for poor phone lines or an older, slower fax machine.

Q: People I send fax messages to say all my documents are received at a reduced size. Is the problem with my machine or with theirs, and what can I do to correct this problem?

A: Make sure that the guides on your document feeder are adjusted to the width of the pages you send. If you leave the guides adjusted for an 11-inch wide page, for example, any 8.5-inch-wide pages you transmit will be reduced when printed at the remote machine.

Q: Do I have to dial a "1" for long distance?

A: Yes. Remember to include any numbers needed for long-distance dialing when you program your one-touch and speed-dial numbers. You can even include a special pause character needed when calling through a telephone system that requires "9-" to reach an outside line (see page 38).

Q: How do I send to an overseas telephone number?

A: Dialing requirements for overseas calls may vary depending on your local telecommunication company's requirements. For most overseas calls, dial 011, then the appropriate country code, city code and phone number. Country and city codes are frequently included in the front section of telephone directories.

Q: How do I send to a fax unit that's on a telephone system extension or PBX?

A: Insert your document into the feeder and place your call using your fax machine's handset. When the system operator answers, ask for the desired extension. When you hear fax tones from the remote unit, press Start, then hang up the handset.

Q: Can I transmit if my fax is out of paper?

A: Yes, however confirmation reports (see page 33) are not available when transmitting without paper in your fax.

Q: Can I transmit pages from a newspaper?

A: No. Newspaper can jam in your document feeder.

Q: Can I transmit a document after using correction fluid on it?

A: Yes, as long as the fluid is completely dry before the document passes through the machine.

Q: I inserted a document in the feeder and dialed the remote fax, but my machine didn't transmit. Now a new time appears on my LCD below the current time. What does this display mean?

A: The remote machine was busy and your LCD displayed the time for the next redial attempt as shown in the example below.

```
Oct 11, 90 9:34
Oct 11, 90 9:30
```

For more information on setting the number of redial attempts, see the section on User Settings.

Q: My manual says the average transmission speed for a page is 18 seconds, but when I transmit a page it can take much longer to transmit one page. Why?

A: The average transmission speed stated in your manual is based on transmission of the CCITT Test Chart 1. The test chart is a standardized letter used to test fax transmission times.

Some reasons for varying transmission speeds follow:

1. The pages you transmit may contain more information to be scanned than the CCITT Test Chart, or Slerex letter.

2. The transmission time measured for test documents does not include handshake time. The handshake is the protocol fax machines use to "introduce" themselves.

3. Your transmissions that use Fine, Superfine or Grayscale take longer to transmit than transmissions using Normal mode.

Q: I tried transmitting from my document feeder, but it didn't work. The time blinked on my LCD, but my fax didn't transmit.

A: Because your fax didn't transmit, the remote fax was probably busy or not in operation. The time you see blinking on your fax LCD indicates the time your fax will attempt to automatically redial.

Reception

Q: I have not been able to receive fax calls manually. I tried pressing Start when I hear fax tones, but the phone line disconnects. What am I doing wrong?

A: When you pick up the handset and hear calling tones from a remote fax, press Start before you hang up the handset. Your machine will begin reception.

Q: My fax rings and the LCD shows "CALLED", but a fax message never comes through. What's wrong with my machine?

A: The caller may have dialed the wrong number, then hung up. Also, if you're using an answering device or a second telephone with your fax, make sure it's properly set up to handle incoming calls (see page 27).

Q: How can I manually receive a fax while I am talking on the phone?

A: If you want to receive a fax message, tell the operator to insert a document in the remote unit and press Start. After you hear fax tones, press Start. Your fax will take over the line and receive the document. If you wish to reconnect the voice line after the message has been received, press Monitor/Call while the fax is printing. After the transmission is complete, your fax machine will ring. You can then pick up the handset and resume your conversation.

Q: My fax machine also serves as my business telephone. I keep hanging up on my fax calls because I'm not sure what a fax calling tone is supposed to sound like. What should I be listening for?

A: Fax calling tones are harsh, shrill, high-pitched noises that repeat every few seconds.

Q: I tried dialing "6,6" from a phone in another room to switch a fax call to my fax, but it doesn't work. Why?

A: The second phone that you use to switch fax calls to your fax must be connected to your fax's Phone 2 connection. See page 26 for more information.

Q: Can I transmit and receive at the same time?

A: No, but use the call mode (see page 51) to ask the remote operator if he or she wants to transmit or receive after your transaction is completed.

Q: I have my fax set to answer automatically. Sometimes when I try to answer a call manually, the handset is dead. What's wrong?

A: Your fax answered the call before you could get to it, and disconnected the telephone. Try setting the number of rings to six instead of two (see User Settings). Six rings will give you plenty of time to answer the call before the fax beats you to it!

Q: When I answer my fax calls manually, I wait for calling tones, press Start, then the line goes dead. I'm worried I might lose a call.

A: The phone goes dead after you press Start because the call has been disconnected from the phone and switched over to the fax.

Q: My fax machine frequently interrupts my voice calls. What can be done to prevent this?

A: A shrill voice or a click over the telephone line may cause your fax to think it's hearing calling tones from a remote fax. To remedy this, set the machine to Tel Ready and answer your fax manually when you're in the office.

Q: I have my fax set to answer automatically, but I sometimes answer calls manually. Sometimes my callers are subjected to piercing, shrill tones. I have to shut off the fax to stop these tones, and only then can I carry on a conversation. This is proving to be very disruptive. What can I do?

A: Your fax is answering the call before you are—it assumes a fax is calling, so it sends out receiving tones. Try setting the number of rings to six instead of two (see User Settings). Six rings will give you plenty of time to answer the call before the fax beats you to it!

Q: I tried dialing "6,6" from a phone in another room to switch a fax call to my fax, but it doesn't work. Why?

A: The second phone that you use to switch fax calls to your fax must be connected to your fax's Phone 2 connection. See the User Settings section for more information.

Q: A white vertical line appears on the pages I receive. How can I prevent it?

A: Your printer's toner is not being distributed evenly. You can remedy this by cleaning the components of your fax machine's printer. For instructions, see page 120 of the Maintenance section.

Q: Black lines appear on the pages I receive. How can I remedy this?

A:
You probably need to replace the fusing cleaner unit inside your fax machine's printing area. This part should be replaced each time you replace the toner unit. For instructions on replacing the fuser cleaner, see page 20. Also, clean the components of your fax machine's printing area. See page 120 for more information.

Polling

Q: Remote operators have tried to poll my fax, but aren't able to retrieve the stored document. What's wrong?

A: You probably entered a passcode restricting access to your fax. Give your passcode to authorized Murata operators only.

Delayed Commands

Q: I tried to enter two delayed broadcast commands, but my fax will only accept one. What's wrong?

A: Your fax allows only one delayed broadcast command and one delayed sequential polling command. You can enter several transmission, non-sequential polling and SecureMail commands, for example, but you can enter only one delayed broadcast and one delayed sequential polling command.

Q: I tried to enter two delayed sequential polling commands, but my fax will only accept one. What's wrong?

A: Your fax allows only one delayed broadcast command and one delayed sequential polling command. You can enter several transmission, non-sequential polling and SecureMail commands, for example, but you can enter only one delayed broadcast and one delayed sequential polling command.

Activity Journal

Q: The telephone number that appeared on my Activity Journal is not the same as the number I dialed. Why not?

A: The Location information that appears on the Activity Journal doesn't come from your fax: It is received from the remote fax during transmission and reception.

Let's say you transmit to a fax at telephone number 1-214-403-3499. It's possible your Activity Journal will just show 403-3499, or even another number altogether, because the information is programmed by the remote operator. (And because your Subscriber ID and TTI appear on the journals of remote units, take a minute to make sure the information is correct and includes your area code. That way, people you communicate with always receive your full name and telephone number.)

Q: What does an asterisk in the Result column of my Activity Journal mean?

A: The fax transaction took place using Error Correction Mode. For more information, see the section on ECM.

Q: Sometimes a phone number appears in the Remote Location column of my Activity Journal, and sometimes a company name appears. Why?

A: When your fax communicates with another Murata-manufactured unit, the TTI or company name (see page 42) for the remote unit is saved in your Activity Journal. When you communicate with non-Murata units, the Subscriber ID or telephone number is saved.

Q: How do I clear my Activity Journal?

A: There is no need to clear your journal: The Activity Journal displays only the 25 most recent transmissions and receptions. When your fax reaches the 25-transaction limit, it will drop the oldest entry and add the most recent to the bottom of the journal.

Q: Why is the number "001" used more than one time on the Activity Journal?

A: The journal begins numbering at "001" each day. Your Transmit Journal, for example, may have several occurrences of "001" because several days of fax activity were recorded.

Q: When I unplug my machine, will I lose programmed information like my TTI, autodialer numbers and time and date?

A: No. The battery for your fax will protect user settings for an extended period of time if power fails or you decide to move your fax. Remember, however, that battery back-up does not extend to documents and delayed commands in memory, only to user settings.

Q: A line of characters appears just below the table on both my transmit and receive journals. What do these characters mean?

A: The information given after the headings "S" and "T" show you the number of pages scanned and transmitted by your fax; the information given after the headings "P" and "R" show you the number of pages printed and received. See page 95 for more information.

Fax Displays and Lamps

Q: What is the Confirm light and how do I turn it off?

A: The Confirm light lets you know a confirmation report has been requested after transmissions (see page 33).

Q: What does "Called" mean?

A: Your fax has been called by a remote fax or phone.

Q: What does "Command Reserved" mean?

A: You have entered a command to take place after the present memory transaction is completed.

Installation

Q: I don't want to install a dedicated phone line for my fax, so I've connected my fax to a PBX phone system. When I get a fax call, all the phones ring. How do I prevent this?

A: Call your telephone company for assistance. They may be able to convert one of the PBX lines for fax use only.

Q: Can I use a dust cover on my fax?

A: No: A dust cover blocks air circulation and could cause your fax to overheat.

Delayed Commands

Q: I tried to enter two delayed broadcast commands, but my fax will only accept one. What's wrong?

A: Your fax allows only one delayed broadcast command and one delayed sequential polling command. You can enter several transmission, non-sequential polling and SecureMail commands, for example, but you can enter only one delayed broadcast and one delayed sequential polling command.

Autodialer

Q: I have entered dashes when storing numbers in my fax machine's autodialer, but they don't appear on the LCD. Am I doing something wrong?

A: No. Your fax displays only what the fax dials, and since dashes aren't dialed, they won't appear on the LCD.

Q: I called the number 011-555-555-1212, but only a few digits appear on my TCR. Why didn't the whole number appear, and how can I be sure my document was transmitted to the right location?

A: The numbers you enter using the fax keypad are temporarily stored in a memory "buffer." That means the last part of the phone number is all that the fax machine's buffer remembers. An easy way to avoid getting incomplete telephone numbers on your printouts is to store your most frequently used numbers in memory. Numbers stored in memory will appear in their entirety on your reports.

Glossary

The terms and words below are often used when discussing facsimile machines and fax communication. Not every word or term included below will apply to your Murata fax. Some, like "private line" and "analog facsimile", are included even though they do not apply to your unit because you may encounter them during your fax use.

Use these definitions for your reference only. Specifications and technical information are subject to change, so call the Murata Customer Support Center (see page 122) if you have any questions.

A4, B4, A3 Standard stationery sizes defined by the International Standards Organization, an agency of the United Nations. A4 paper is 8.5 inches wide. B4 is 10.1 inches wide and A3 paper is 11.9 inches wide.

Activity Journal Murata fax machines offer an Activity Journal to help track and account for your transactions. Made up of individual transmit and receive journals, the activity journal includes information on the transmission mode, number of pages sent, result and any errors encountered. You can set the Activity Journal to print automatically or on demand.

Analog Facsimile An analog facsimile machine converts each picture element of black or white into an electrical signal. These signals in turn generate constantly changing electrical signal that is transmitted to a receiving fax. Analog facsimile machines are characterized by extremely slow document transmission, three minutes per page or more, and are more susceptible to the signal "noise" encountered on standard telephone lines.

Automatic Reduction Many Murata fax machines will automatically reduce documents being transmitted to accommodate the effective printing width of the receiving unit. For example, a fax machine with a 10-inch scanning width can send an image 10 inches wide to a unit with an 8.5-inch print width. The complete image will be transmitted and reduced in size when printed at the receiving unit.

Bit The smallest unit of information in a computer. Contraction of "binary digit". Some Murata fax machines, which are themselves computers used for telecommunications, allow you to change bits of information to provide or cancel features through software settings. Check your operating instructions.

Broadcast Some Murata fax machines offer broadcasting, a feature that lets you transmit a single document to dozens of preprogrammed locations in a call group.

BPS Bits per second. Used to express the speed of transmission. Because fax transmission treats a document as a graphic image rather than as a series of alphabetic and numeric characters, bps does not correspond to the number of characters transmitted per second. Murata fax machines transmit and receive at 9600 bps, with automatic fallback to 7200, 4800 and 2400 bps if required by poor telephone line conditions.

Byte A group of digital elements, usually sent as eight bits to the byte.

Call Group A preprogrammed group of fax locations used by Murata units with internal memory to speed broadcasting, polling and other functions.

Call-Waiting Service   Many telephone systems offer an optional call-waiting service that identifies when another party is calling while you are on the phone. Call-waiting signals may cause interruption of facsimile transmission or reception.

CCD   Charged coupled device arrays. The scanning mechanism used in Murata fax machines to convert a document image into digital facimile information. Fluorescent light reflected off your document is received by the CCD array and is converted into a digital signal for transmission.

CCITT   Abbreviation for the Consultative Committee for International Telegraph and Telephone, a telecommunications forum for member countries of the United Nations. CCITT Study Group XIV established the primary groups for facsimile equipment, covering communication protocol and transmission. Murata's Group 3 fax machines offer the fastest transmissions allowed by CCITT when communicating with other Group 3 units. Some Murata fax machines offer compatibility with older Group 2 and North American FM systems, as well.

CCITT V.29 and V.27 ter.   A standard set of communication procedures allowing fax machines to talk to all other units adhering to those standards.

Closed Network   A network of fax machines that limit access to the network to other units having the same passcode. Some Murata fax machines offer passcode protection and can participate in a closed network.

Compatibility   The term "compatible" describes the ability of separate things to function together. Murata fax machines offer CCITT Group 3 compatibility, the modern standard for worldwide communication. Many Murata units offer Group 2 and North American FM compatibility, as well.

Copy Mode   You can use your Murata fax as a convenience copier. Many Murata units can copy in two or more levels of resolution.

Database Polling   See Polling.

Data Compression   Used in digital fax machines to speed transmission. See Digital Facsimile, MH, MR and MSE, SMSE.

Delayed Transmission   Some Murata fax machines offer one or more delayed commands, allowing you to load documents into your fax machine during work hours for transmission after hours.

Digital   The description of information using a series of two characters or signals. Morse code, for example, represents each character of the alphabet with a unique series of dashes and dots. Digital fax machines convert the graphic image of your document into a series of zeros and ones.

Digital Facsimile   Unlike analog systems that scan every portion of a document, digital fax machines survey a document's overall picture content. Digital fax machines scan a line and convert the information into a binary code of zeros and ones. The fax machine can take this information and compress it, providing transmission speeds of less than one minute per page. Murata units offer the standard Group 3 data compression method for rapid transmissions to any other Group 3 fax, and many Murata units offer proprietary transmission speeds for faster transmissions between Murata-manufactured units.

Dip Switches   Dual in-line package switch: A two-position on-off switch. Many Murata fax machines include dip switches to control optional settings or features. Check your operating instructions for more information.

DTMF For dual tone, multiple frequency. The dialing signals generated by push-button or "touch-tone" telephone systems. DTMF telephone service is an option in most North American telephone systems.

ECM Error correction mode. A CCITT-approved feature for Group 3 fax machines. ECM transmission sends document image data in blocks, and retransmits each block until received properly by the receiving unit.

Effective Printing Width The widest image that can be printed on your fax. The effective width can be influenced by the CCITT group of the unit transmitting to your fax machine.

Effective Scanning Width The maximum width the scanner in your fax can scan during transmission.

Encryption Device This device adds security to your fax messages by "scrambling" the fax signal during transmission. The message is unscrambled by a similar encryption device at the receiving end.

Facsimile Although business fax use has grown rapidly since the advent of fast, powerful Group 3 units, facsimile communication itself has a surprisingly long history. The first facsimile system was introduced in 1842, and wide-spread service was underway before 1910. In the United States, fax units attached to home radios provided facsimile newspaper service in several cities through the late 1940s. Facsimile's growing success for news transmission was halted, however, by the development of commercial television.

Facsimile Interface Processor An upgrade that allows some Murata fax machines to operate with asynchronous ASCII host devices, coupling the power of computers with the scanning and transmission capabilities of fax machines for high-volume communication, graphics input and direct computer-to-fax transmissions.

Fallback Group 3 fax machines operate at the highest transmission speed possible on a given telephone line. Murata systems offer automatic fallback, so if line quality drops during transmission your fax machine will reduce speed to the fastest possible level.

Fine Resolution 203H x 196V lpi. Also shown as G3F on some units.

FM Or North American FM. Used to identify CCITT Group 1 units designed for use in North America.

Grayscale Not a level of resolution, but a method of scanning and transmitting halftone images. Murata fax machines with grayscale abilities interpret photographs in levels of gray between white and black. The transmitting fax machine must have grayscale ability to send a photographic image accurately, but the receiving machine does not need it to print the image.

Group 4 A CCITT standard for capturing, processing, communicating and outputting all forms of data. Group 4 will be used for extremely high-volume fax communication in coming years, but the expense of leased, dedicated digital telephone lines will continue to make Group 3 fax the best choice for millions of fax owners.

G2 Used on some Murata units to identify Group 2 resolution or to identify when a document is being transmitted to a Group 2 fax machine.

Handshaking   Used by telecommunications and computer equipment to "introduce" two systems to each other. Facsimiles use a handshaking protocol, for example, to identify the CCITT group of each unit and to begin fax communication.

Hz   Or hertz. A measure of frequency equal to one cycle per second. Used in the specifications for your fax, it identifies the AC power your unit requires. Call your electrician if you don't know the specifications of your office outlets.

Internal Memory   Some of Murata's most advanced fax machines include internal memory to store documents for transmission or to store incoming messages in SecureMail boxes.

LCD   Liquid crystal display. Used on some Murata units for status displays.

LED   Light emitting diode. Used on some Murata units for displays and lamps.

LPI   Lines per inch.

Load Number   A number assigned to telecommunications equipment used in Canada and designed to prevent overloading on a telephone circuit. Read the Canadian Department of Communications information in your operating instructions or call your local telecommunications company for more information.

Location ID   An optional identifier used on Murata fax machines. The Location ID lets you identify by name the telephone numbers programmed in your autodialer.

MH   Modified Huffman, the CCITT Group 3 standard data compression method. A feature of all Murata fax machines, MH assures better than one-page-per-minute transmissions when communicating with other Group 3 units, regardless of manufacturer.

MR   Modified Read, the optional CCITT Group 3 data compression method. Used in some Murata fax machines and in Murata's Facsimile Interface Processor and FIP-PC Application Software.

Modem   Originally an abbreviation of modulator-demodulator, but now a common word in fax and computer use. A modem is a digital device that converts digital data (like the information from your fax machine) into an analog signal for transmission over analog lines (like your ordinary telephone line). A modem is included in your fax machine and allows it to be connected directly to your PSTN telephone line.

MSE, SMSE   Proprietary data compression methods, allowing transmissions faster than with MH and MR whenever you are communicating with a Murata-manufactured unit. MSE and SMSE are features on many Murata fax machines.

Normal Resolution   Shown as Norm. 203H x 98V lpi. The standard resolution mode for Group 1 and 2 units, and available on all Group 3 units.

Original Document Size   Used when defining the largest (or smallest) document that can be fed safely through your fax machine. Check your unit's operating instructions for more information.

Passcode   A proprietary feature available on some Murata fax machines. The four-digit passcode limits access to information set to be polled to units with the same passcode. The code also allows several

Murata systems to create a closed network. limiting access to the network to systems with the same code.

PBX Private branch exchange. Often called PBX. PABX and others. Privately owned telephone equipment serving a particular building, business or area. Many PBX systems use digital transmission lines which, unlike more common PSTN lines, are not compatible with fax machine use. Do not connect your Murata unit to a PBX without first checking with the system manufacturer or service representative.

Polling Polling allows you to set a document in your fax machine for automatic transmission to a remote unit when that unit calls, or to call a remote unit and receive a document set to be polled. Polling is convenient whenever a central unit must receive information from one or several remote units. By polling the remote units, the central facility bears all telephone charges and prevents several remote units from calling at the same time. In database polling, remote units can call and request specific files of information stored inside a Murata unit with internal memory.

PPS Pulses per second. Used to identify rotary dialing requirements.

Private Line Or Leased Line. A service offered by many telephone systems that provides an exclusive phone circuit between two geographic points. Your Murata unit does not require a private line.

PSTN Public switched telephone network. PSTNs are the most common type of telephone lines and service in use, and are in contrast to private or leased lines. Murata units provide fast, reliable data transmission over PSTN lines. You do not need a special line or a dedicated telephone line for your Murata unit.

Relay Broadcasting Some Murata fax machines can store a scanned image in internal memory, transmit the image to all units in a call group, and instruct those remote units to retransmit the image to each fax machine in the remote unit's call group. This relay broadcasting feature speeds extremely high-volume fax communication and allows a single command to initiate document transmission hundreds of preprogrammed fax locations.

Resolution The resolution of documents transmitted or copied by fax machines is measured by the number of horizontal (H) and vertical (V) lines per inch the unit can print. Your Murata unit may offer one or more of these resolution levels:

FM	203H x 98V lpi
G2	203H x 98V lpi
Norm	203H x 98V lpi
Fine	203H x 196V lpi
Superfine	203H x 392V lpi (transmission only)

Some Murata units also offer grayscale transmissions for accurate reproduction of photographs.

Receive Confirmation Report A receive confirmation report is your assurance that the document you transmitted was received. The RCR prints out after your transmission. It identifies the receiving unit and records the date, time, transmission mode, number of pages sent and result. The RCR is an exclusive feature of Murata fax machines and is available only when transmitting to another Murata unit.

RJ-11C A standard plug-in telephone jack. The RJ-11C is commonly used in North America for telephone line connections, but call your telephone company if you are unsure of the type of jacks in your office.

Rotary, Tone Dialing Most telephone systems in the United States offer rotary and touch-tone dialing options. Murata units are compatible with both rotary and tone dialing signal requirements. Check your operating instructions for information on setting your unit for rotary or touch-tone dialing. Murata units

also offer two types of rotary dialing signals: 20 pps and 10 pps. Check with your telephone company if you have rotary dialing service.

SecureMail   A feature on many Murata fax machines. SecureMail allows you to send a document to a memory "mail box" in a Murata unit with internal storage. The transmission is protected at the receiving end by an access code created by the mail box holder.

Subscriber ID   The Subscriber ID is your unit's telephone number. Part of the TTI, the Subscriber ID is printed at the top of each page received from your unit.

Surge Protector   A device that protects your telephone or electrical lines. A telephone power surge protector can absorb and divert high-voltage surges caused by lightning or static electricity without interfering with normal telephone operation. An electrical surge protector protects you fax from high-voltage surges in the AC line that may cause damage to your fax and other appliances.

Touch-Tone   A push-button telephone or the characteristic tones made by such a phone. Also a registered trademark of Western Electric for a brand of telephones.

Transmit Confirmation Report   Like the RCR, a TCR provides proof that the document you set for transmission was sent. Printed after transmission, the TCR identifies the telephone number to which you programmed the document to be sent.

Transmit Terminal Identifier   Your programmable TTI is sent automatically with every page you send, and appears at the top of each page printed by the receiving unit. The TTI can be your personal or business name or any other identifier.
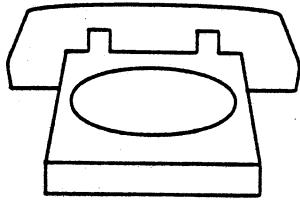
Before You Call...

Q: A white vertical line appears on the pages I receive. How can I prevent it?

A: Your toner is not being distributed evenly. See page 120 for information on cleaning your printer components. When your printer components are clean, this problem should be remedied.

Q: A black vertical line appears on the pages I receive. How can I prevent it?

A: You probably need to replace your fax printer's fusing cleaner unit. This part should be replaced each time you replace your machine's toner unit. For more information on replacing the fusing cleaner, see page 120. Also, follow the instructions on page 120 on cleaning your fax machine's printer components.

Problem Solving

Paper Jams   You may occasionally encounter a paper jam when using your fax. The types of paper jams are listed below:

Document Feeder

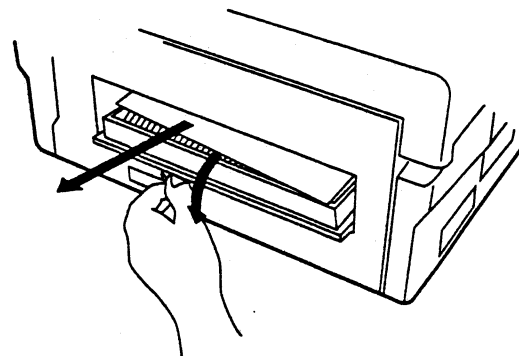To remove a page jammed in the document feeder:

1. Press the front cover release to open the top cover.

2. Remove jammed page.

3. Firmly close the front cover.
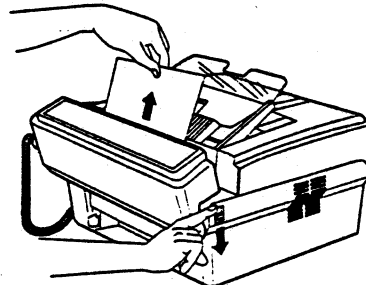
**Paper-Feed Area**

To remove a page jammed in the paper-feed unit:

1. Open the door to the paper-feed area at the back of your fax.

2. Remove the jammed paper.

3. Close the door to the paper-feed area.

Transport Unit

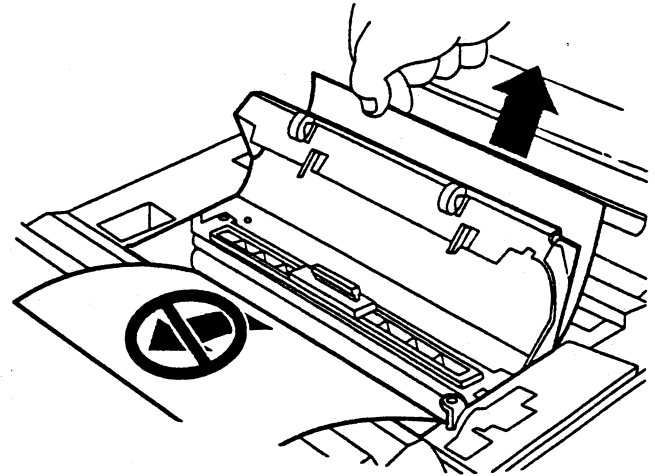To remove a page jammed in the transport unit:

1. Press the top cover release to open the top cover.

2. Remove the toner unit and the drum set.

3. If the page is caught under the upper guide plate, lift the plate and remove the page.

4. Replace the toner unit and the drum set.

5. Firmly close the top cover.
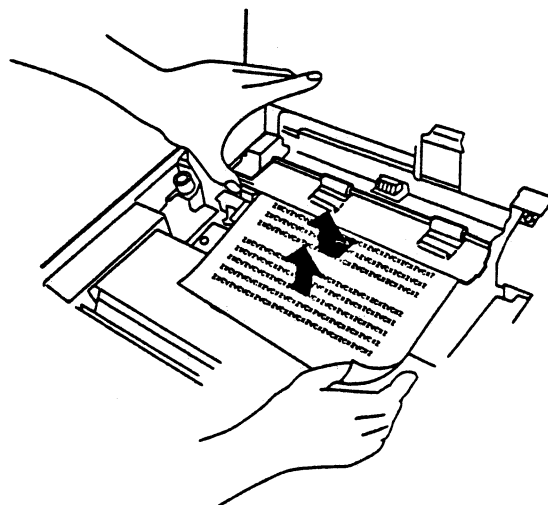
Fixing Unit

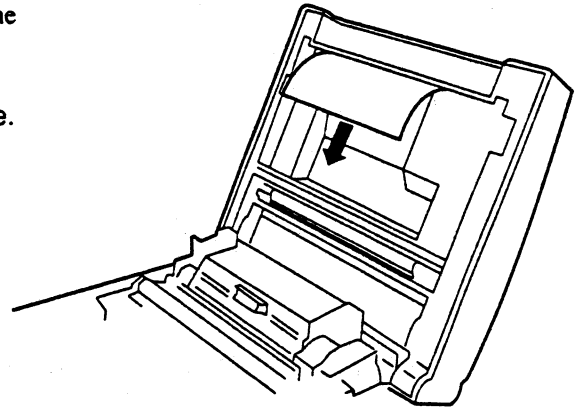To remove a page jammed in the fixing unit:

1. Press the top cover release to open the top cover.

2. Remove the toner unit and drum set.

3. Open the felt-covered fixing unit cover and pull the paper out from the back.

Paper Exit

To remove a page jammed in the paper exit:

1. Press the top cover release.

2. Remove the page.

3. Firmly close the top cover.

Troubleshooting

Occasionally your unit will detect a problem with the telephone line in use or encounter some trouble in transmission or reception. When it does, it will alert you with the lighted Alarm lamp and a beeping alarm tone.

You can further identify the problem with the LCD display messages, Activity Journal check messages and printed error codes. See the following sections for information about these troubleshooting methods.

Alarm

Your fax will alert you with the lighted Alarm lamp and a beeping alarm if the following occurs:

• Your fax has trouble transmitting

• Your fax has trouble receiving

• Your fax is out of paper

Press **Stop** to cancel the Alarm LED and tone.

LCD Messages

These error messages appear in your unit's LCD and help in troubleshooting fax communication problems.

Insert Document Again

Your document was not inserted correctly during transmission. Carefully replace your document in the feeder, adjust the document guides to the proper width and try again.

Insert Document

Your unit attempted to carry out a command without a document in its document feeder. Place your document in the feeder and try the command again.

Please Add Paper

Your paper cassette tray is out of paper. Please replenish your machine's paper supply.

No Document Stored

The remote machine you contacted did not receive your SecureMail document.

No Command Stored

You requested a delayed command that is not programmed.

Please Close Covers

One or both of the covers to your unit is not closed. Press firmly on the covers to close them.

Hang Up Telephone

The telephone handset to your unit is off hook after transaction. Return the handset to its cradle.

Memory Overflow

The document being scanned into your unit's internal memory requires more memory than your unit has available. Transmit the document from the document feeder.

LCD Messages, continued

Polling in Use — A polling document has already been stored. You cannot store two documents for polling at the same time.

Memory Not Available — The internal memory in your unit was full before you began your transaction. Clear some of your machine's memory by deleting a delayed command, or transmit from the document feeder rather than from internal memory.

Nothing Stored — The one-touch, speed-dial or group number selected has not been programmed in the autodialer. Try programming the number again.

Please Wait — Your fax machine's printer is either warming up or busy. Please wait until the fax is finished printing and try your command or operation again.

No Document Stored — You have requested a SecureMail document that is not stored in your machine's memory.

Cannot Transmit — Your machine cannot transmit a document from the feeder while it attempts to execute a delayed command.

Check Lamp — The lamp in your unit's scanner may be defective, preventing transmission and copying. Call Murata's Customer Support Center (see page 122) or contact your local facsimile dealer for help.

Please Add Toner — You are almost out of toner. Please replenish your machine's toner unit with the contents of one toner cartridge.

Please Add Paper — You are almost out of paper. Please replenish your paper cassette tray's paper supply.

Check Drum/Toner — One or more of your printer's components are not properly installed. Make sure the printer drum, printer toner unit and waste toner bottle are securely in place.

Order New Drum — Your printer's drum is good for a few more copies; however you need to call your Murata representative soon and order a replacement. Check the corresponding printed message for more information.

Please Replace Drum — Replace your drum immediately. Order a replacement drum from your Murata representative.

Please Check Paper — Your paper cassette tray is not properly installed. Make sure your paper cassette tray is securely in place.

LCD Messages, continued

Please Check Toner

Your toner is running low. You may need to replace the toner unit soon.

Please Replace Drum

The life of your printer drum has expired. Please replace with a new drum.

Verify Operation of Remote Machine

Communication with the remote machine was not possible. This message can be caused by calling an older Group 1 machine that's not compatible with your fax, reaching a fax machine that is broken or out of paper, or dialing a wrong number. Use the fax telephone handset to call the number manually. Ask the remote operator to check the remote fax.

Verify Readability of Transmitted Copy

Poor telephone line conditions have made the document you received unreadable. If so, call the remote location and request that the document be transmitted again.

Please Transmit Again

Your transmission may not have been completed. Poor telephone line conditions, a document feeder jam or problems at the remote machine may have been the cause. Try the transmission again.

Unable to Contact Remote Fax Machine. Call Again

Your fax was unable to complete the communication requested. The remote fax may be busy or set to manual reception with no operator nearby. Call the remote unit and ask the operator to check the fax.

Error Codes

These codes are printed on your unit's Activity Journal and can be used with the other messages to identify the cause of an error. Codes prefaced by a "T" occur during transmission. Those with an "R" occur during reception and "D" codes occur while dialing.

T.1.1.—The remote unit did not respond properly to your facsimile and may not be working. Call the operator of the remote unit.

T.1.2.—The page counter in your unit detected a possible document feeder error. Carefully re-insert the document into the feeder and try the call again.

T.1.3.—Handshaking between units was not completed. The remote fax was disconnected. Call the operator of the remote unit.

T.1.4.—The Stop button was pressed at the remote unit in the middle of the handshake. Call the operator of the remote unit.

T.2.1.—The telephone line disconnected during transmission or facsimile communication became impossible because of poor line conditions. Try the call again.

T.2.2.—The machine you are attempting to communicate with is not compatible with your fax.

T.2.3.—Communication was not possible because of poor line conditions. Try the call again.

T.3.1.—The page counter in your unit detected a document feeder error during transmission. Carefully re-insert the document into the feeder and try the call again.

Error Codes, continued

T.4.1.—The telephone line disconnected during the transmission of a page because of excessive modem errors or because the receiving unit ran out of paper. Try the call again.

T.4.2.—Poor line conditions developed after the start of transmission. Try the call again.

T.4.3.—The remote fax disconnected during the handshake.

T.5.1., T.5.2. and T.5.3.—Line noise or other problems prevented ECM transmission.

T.7.1—Poor line conditions were detected before transmission began. Try again.

T.7.3—Poor line conditions were detected after transmission of a page, or the receiving unit was disconnected or ran out of paper. Try the call again.

R.1.1—The calling unit did not respond properly to your fax machine. The error can be caused by a wrong number reaching your facsimile or by a calling unit restricting access with a passcode.

R.1.2.—The calling unit was not compatible.

R.1.4.—The Stop button was pressed in the middle of reception.

R.1.5.—Handshaking between your machine and the remote fax did not take place. Try the call again.

R.2.3.—Communication was not possible because of poor line conditions. Call the remote operator.

R.3.1.—The transmitting facsimile detected too many errors from the receiving unit. This is often caused by an intermittently poor phone line.

R.3.2.—The phone line in use disconnected just after the handshake but before the first page was transmitted.

R.3.3.—The transmitter is not compatible or had a document feeder problem.

R.3.4., R.4.1.—The remote unit is out of paper.

R.4.2.—The phone line disconnected before confirmation of transmission, or the transmitting unit requires maintenance.

R.4.4.—The remote machine has reached its memory capacity.

R.5.1., R.5.2.—Line noise or other problems prevented ECM reception.

D.0.0.—The remote machine is busy. Try the call again.

D.0.1.—The remote unit did not respond. Try the call again. If the message is repeated, call the operator of the remote unit to verify the unit's operation.

Note: Reception errors R.2.3 through R.7.2 can occur at the beginning of fax call, before your unit prints the remote machine's TTI or Subscriber ID, or after you've received several pages of a multiple-page document. If you receive the TTI and Subscriber ID, you may be able to fax the remote unit and identify the reception error for the remote operator. Errors R.1.1 and R.1.2 occur before the TTI can be transmitted, and do not allow you to identify the transmitting unit.

Maintenance

With proper installation and a little maintenance, your Murata fax machine should provide dependable fax service for years to come.

Although little day-to-day care is required for your fax, you can take three simple precautions to ensure long system life:

*   Make sure your unit is installed according to Murata's specifications.
*   Proper installation is crucial to the maintenance of your unit. Review the requirements on page 6 before you install your unit. Don't install your fax where it can overheat or in an area that's not properly ventilated. It should be located in a place where it will not gather dust or get splashed by water or other liquids.
*   Clean your fax, if needed.

Murata Fax Care Products

Murata offers a complete Faxcessory Fax Care kit for your facsimile machine, with cleaning solution, swabs, wipes, compressed air, case and cabinet cleaner and a telephone surge protector.

The cleaning components gently and effectively remove fingerprints, dust and lint from your unit—outside and in. The surge protector guards against damaging voltage surges in your facsimile machine's telephone line. Together, the cleaning components and surge protector keep your fax in top shape.

Get a Murata Faxcessory Fax Care kit, Murata item master number MK2034, for your fax. Ask your Murata representative or facsimile retailer for one today. For more information and the closest source of Murata products, call Murata Business Systems at 1-800-543-4636.

Cleaning Outside

Use a mild cleaning solution sprayed onto a lint-free towel or cloth to wipe down the fax machine's cover, handset and paper cassette tray.

Never spray cleaner directly on your facsimile machine. The drifting spray could damage components inside your unit.

Cleaning Inside

Always unplug your unit before cleaning.

*   Use lint-free swabs, a specially formulated cleaning solution and a supply of compressed dust-free air to clean inside your fax.
*   Use a lint-free cloth moistened with cleaning solution to wipe plastic surfaces inside your unit.
*   Use the lint-free swabs moistened with cleaning solution to gently wipe components inside your fax.
*   Use dry, dust-free compressed air to gently blow dust and other material from areas you cannot reach with swabs.
*   Never attempt to clean inside sealed areas of your unit and never spray cleaning solution directly onto your fax.

Cleaning the Printing Area

When a black vertical line appears on your printed pages, you have an accumulation of toner inside your fax machine's printing area. When this occurs, see the instructions in the following sections on cleaning your fax machine's printer components.

Waste Toner Bottle

To clean the waste toner bottle compartment:

1. Press the top cover release button to open the top cover.

2. Pull up the side cover on the left side of your fax.

3. Remove the toner bottle from the compartment.

4. Clean the compartment using the cleaning brush and cleaning paper included with your printer kit.

5. Replace the waste toner bottle and close the side cover.

6. Close the top cover.
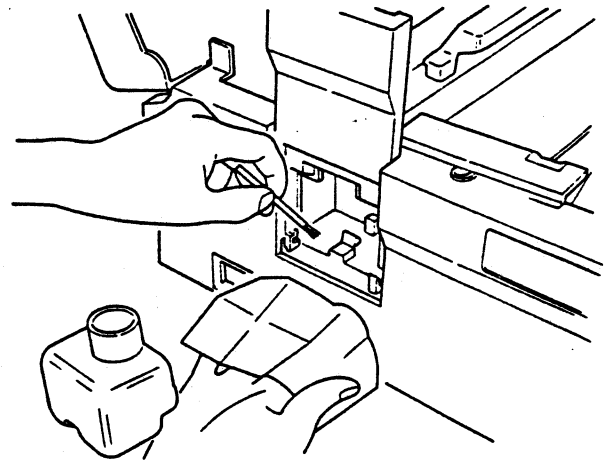
### Feeder Guide

To clean the feeder guide:

1. Remove the drum set and the toner unit to reveal the feeder guide. The feeder guide is metal and has ridges on it.)

2. Clean the feeder guide using the cleaning paper included with your printer kit.
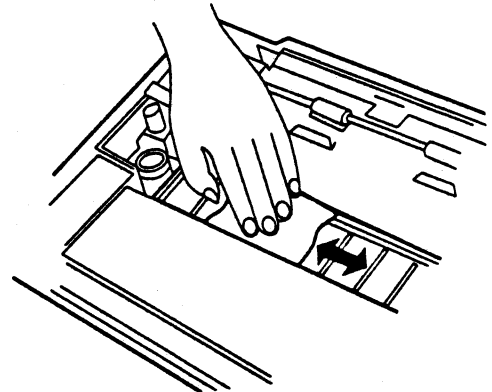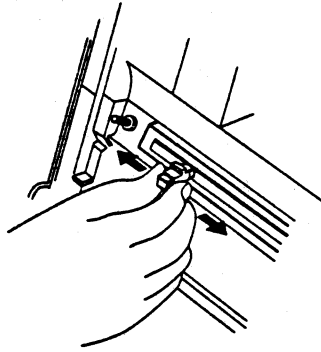
Guide Plates

To clean the upper and lower guide plates:

1. Remove the toner unit and the drum set.

2. Lift the lip of the upper guide plate. Clean the upper and lower guide plates using the cleaning paper included with your printer kit.
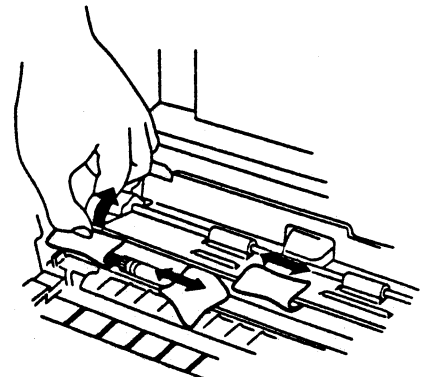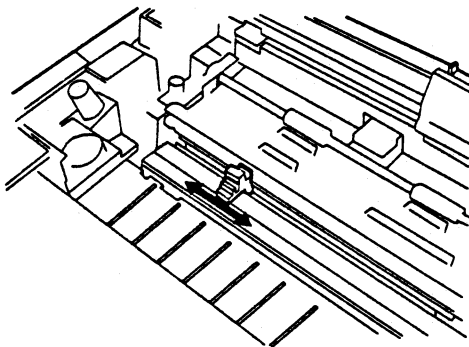
LED Protection Glass

To clean the protection glass of the LED:

1. Open your fax and look at the underside of the unit's top cover. The LED protection glass is a long glass tube mounted on a steel plate.

2. Using the process cleaner included with your drum set, gently clean the LED protection glass from edge to edge.

Transfer Wire

To clean your machine's transfer wire:

1. Remove the toner unit and the drum set. Look for the transfer wire. The transfer wire is located in the space that resembles a trough, directly in front of the roller.

2. Place the process cleaner in the space and gently move it from edge to edge to clean the transfer wire.

Toner Unit

Protect your work area with newspaper before you clean the toner unit. Take special care when cleaning your toner unit: Toner may stain your clothing, desktop or carpet.
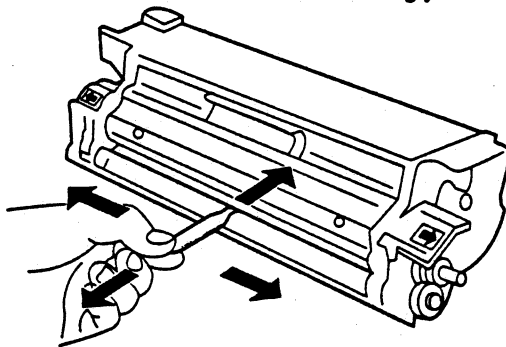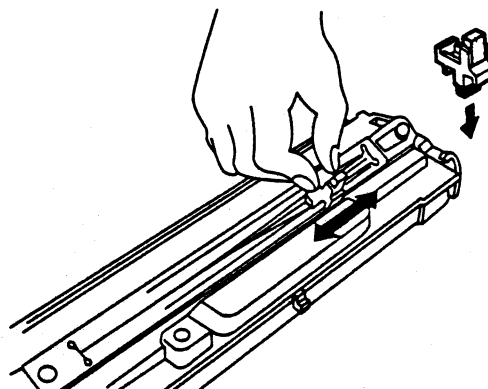
To clean excess toner from the toner unit.

1. Remove the toner unit.

2. Use the toner cleaner included with your toner set to clean the toner unit. Insert the narrow end of the toner cleaner between the metal guard and the toner roller. Move the toner cleaner back and forth and side to side.

Drum Set

To clean the drum set's static wire:

1. Remove the drum set. The drum set's static wire is located underneath the slotted, black plastic strip that's just above the orange handle.

2. Insert the process cleaner into the slot so it fits into the space. Carefully move the process cleaner from edge to edge to clean the static wire.

Service Questions

If you have questions about your fax or its use, call Murata's Customer Support Center at **1-800-347-3294.**

Trained Murata service technicians are available from 7:30 a.m. to 7:30 p.m. Monday through Friday Central time, excluding holidays, to resolve any questions not answered in this manual.

Have your fax's serial number ready for the service technician when you call. The serial number is printed on a bar code label on the back of your machine. The last eight numbers of the alpha-numeric bar code make up your serial number.

The serial number shown here is a sample serial number; do not use this number when you call a service representative.

Advanced Features

Facsimile Interface Processor

Murata's exclusive Facsimile Interface Processor can couple the power of computers with the scanning, transmission and reception capabilities of your fax machine, for high-volume communication, graphics input and direct computer-to-fax transmission.

FIP is a powerful link between your personal computer, network, minicomputer or mainframe and the global world of high-speed fax communication.

For more information about FIP, contact your local Murata dealer.

Error Correction

Your fax offers CCITT Group 3-standard error correction, to assure that important documents arrive looking clear and sharp.

Here's how error correction mode works:

During transmission, your fax sends your document in high-speed segments. After each segment is sent, your fax waits briefly to receive a signal from the remote unit confirming the image data was received properly. If telephone line noise damaged some of the image data, your fax will retransmit the block until it is received properly.

ECM reception works the same way: An ECM-equipped fax will transmit to your unit in high-speed blocks of image data. Your fax responds after each block is received, indicating whether the block should be sent again or was received error-free.

When is ECM Available?

ECM is a feature on many new Group 3 fax machines: Any machine with CCITT-standard ECM can send to or receive from your Murata fax in the ECM mode.

If you transmit to or receive from a fax that doesn't have ECM, your call will continue like any normal Group 3 communication, but will not have the benefit of ECM error checking.

Selecting ECM

Selecting ECM operation reduces the amount of fax memory available for delayed transmission and other commands: ECM reserves a portion of your fax memory to store image data during transmission and reception.

Your fax normally has enough memory to store about 32 pages of CCITT Test Chart 1 at normal resolution. When you select ECM operation, that amount is reduced to about 28 pages.

Selecting ECM operation may also slow transmission to and from your fax: Retransmitting damaged image data increases the time needed to send the complete document.

Your fax lets you select ECM separately for transmission and reception. Select ECM transmission when sending documents that require the ultimate in error correction. You can leave ECM reception on all the time to take advantage of its error correction whenever an ECM-equipped fax calls, or turn ECM transmission and reception off to free internal memory in your fax.

To select error correction mode:

Limited Warranty

This warranty is made by Murata Business Systems, Inc. ("Murata"). This warranty is valid only on Murata products purchased and used in the United States of America. This warranty applies to the product only while owned and used by the original purchaser (hereinafter referred to as the "Customer"). If ownership of the product is transferred, this warranty terminates. This warranty does not apply to any product in use for rental purposes.

This Murata product is warranted against defects in material and workmanship for ninety (90) days commencing the date of original Customer purchase. If the product is defective in material and/or workmanship (normal wear and tear excepted) during the warranty period, Murata or its authorized representative will, during Murata's established service availability hours, make necessary adjustments and repairs, including at Murata's option installation of replacement parts. Murata's service availability hours are 8:30 a.m. to 5 p.m. Monday through Friday, excluding Murata-recognized holidays. Murata will complete the necessary adjustments and repairs within a reasonable time period, as dictated by the nature of the problem and by Murata's service schedule. Replacement parts may have been used and/or reconditioned. Parts that have been replaced will remain the property of Murata. This warranty is subject to the OBLIGATIONS and EXCLUSIONS set forth.

OBLIGATIONS

1. This warranty will be honored only on presentation of the original dated authorized Murata bill of sale or Murata dealer bill of sale or sales slip to an authorized Murata service representative, authorized dealer or service center. For the name of your nearest authorized Murata service center, contact Murata Business Systems, Inc., toll-free telephone number 1-800-347-3294.

2. During the warranty period, the Customer must notify Murata by telephone of any defective product material and/or workmanship.

3. Transportation (including prepayment of freight and insurance charges) of the product to and from an authorized Murata service center, designated by Murata, is the responsibility of the Customer.

4. If Murata provides maintenance or responds to a call which is outside the scope of this warranty, such maintenance shall be billed to the Customer at Murata's then current rates for maintenance and parts and shall be due and payable in full upon receipt of invoice.

EXCLUSIONS

1. This warranty shall not cover a product with missing or altered original identification marks.

2. This warranty applies only to products that the purchaser has properly installed, adjusted and operated in accordance with the instructions set forth in or provided with product literature. This warranty does not apply to any product which has been subjected to tampering, alteration, misuse, abuse, neglect, improper installation or transportation damage. Nor does it apply to costs for any service requested for demonstration or to confirm proper operation of this product.

3. This warranty shall not apply to adjustments, repairs or replacements necessitated by any cause beyond the control of Murata (whether foreseeable or not) including, but not limited to, any malfunction, defects or failure caused by or resulting from any of the following: improper unpacking or installation, unauthorized service or parts, or improper maintenance or cleaning, modification or repair by the Customer, accident (including without limitation, unavoidable accidents), fire, flood or other acts of God, improper telephone or electrical power or surges thereof, interconnection with or use of non-compatible equipment or supplies (including paper), or placement of the product in an area which does not conform to Murata space, electrical and/or environmental requirements.

4. Murata will not be required to make adjustments, repairs or replacements if the product is installed or used at a location deemed by Murata to be hazardous to health or safety, or if Murata is not provided with free and reasonable access to the product and a telephone during service availability hours, or if the product location is not accessible by an authorized Murata service vehicle.

EXCEPT AS EXPRESSLY SET FORTH ABOVE, AND EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW, MURATA MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED (INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, AND ANY WARRANTY ARISING FROM COURSE OF DEALING OR USAGE OF TRADE), AND MURATA EXPRESSLY DISCLAIMS ALL WARRANTIES NOT STATED HEREIN. IN THE EVENT THE PRODUCT IS NOT FREE FROM DEFECTS AS WARRANTED ABOVE, THE CUSTOMER'S SOLE REMEDY SHALL BE REPAIR OR REPLACEMENT AS PROVIDED ABOVE. UNDER NO CIRCUMSTANCES SHALL MURATA BE LIABLE TO THE CUSTOMER, OR TO ANY USER, FOR ANY DAMAGES, INCLUDING ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES, EXPENSES, LOST PROFITS, LOST SAVINGS OR ANY OTHER DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE MURATA PRODUCT, EVEN IF MURATA OR ITS REPRESENTATIVES HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

Some States do not allow the exclusion or limitation of incidental or consequential damages, and some States do not allow limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from State to State.

1. Press **Program, 1, 1**.

```
11. Error Correction
01-12   Enter/Select
```

2. Press **Confirm/Enter.**

```
ECM Tx:        Off
         Enter/Select
```

3. Now press **Mode/Select** to turn ECM transmission on or off as needed.

```
ECM Tx:        On
         Enter/Select
```

4. Press **Confirm/Enter.**

```
ECM Rx:        Off
         Enter/Select
```

5. Press **Mode/Select** to turn ECM reception on or off as needed.

```
ECM Rx:        On
         Enter/Select
```

6. When finished, press **Confirm/Enter.**

```
Error Correction
** Completed **
```

Multitasking

Multitasking is a true timesaver for the busy workplace: There's no need to wait for your fax to finish a transaction—such as receiving, broadcasting or polling—before you program your next command. Enter any type of command you wish, whether it's a delayed command from memory or from the feeder...then just walk away. The following LCD message will briefly appear, then your fax will complete the current fax transaction.

```
Command Reserved
```

After it has finished, your fax will execute your command. No more waiting for the command to finish before programming the next command!