

# SHARP SERVICE MANUAL

No. 00ZFO77U//SME



Illustration: FO-77

## FACSIMILE

## FO-77 MODEL UX-66

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#### PARTS GUIDE

Parts marked with "⚠" is important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

**CAUTION FOR BATTERY REPLACEMENT**

- (Danish)                      ADVARSEL !  
Lithiumbatteri-Eksplosionsfare ved fejlagtig håndtering.  
Udskiftning må kun ske med batteri af samme fabrikat og type.  
Levér det brugte batteri tilbage til leverandoren.
- (English)                      Caution !  
Danger of explosion if battery is incorrectly replaced.  
Replace only with the same or equivalent type  
recommended by the equipment manufacturer.  
Discard used batteries according to manufacturer's  
instructions.
- (Finnish)                      VAROITUS  
Paristo voi räjähtää, jos se on virheellisesti asennettu.  
Vaihda paristo ainoastaan laitevalmistajan suosittelemaan  
tyyppiin. Hävitä käytetty paristo valmistajan ohjeiden  
mukaisesti.
- (French)                      ATTENTION  
Il y a danger d'explosion s' il y a remplacement incorrect  
de la batterie. Remplacer uniquement avec une batterie du  
même type ou d'un type recommandé par le constructeur.  
Mettre au rebut les batteries usagées conformément aux  
instructions du fabricant.
- (Swedish)                      VARNING  
Explosionsfare vid felaktigt batteribyte.  
Använd samma batterityp eller en ekvivalent  
typ som rekommenderas av apparattillverkaren.  
Kassera använt batteri enligt fabrikantens  
instruktion.
- (German)                      Achtung  
Explosionsgefahr bei Verwendung inkorrektter Batterien.  
Als Ersatzbatterien dürfen nur Batterien vom gleichen Typ oder  
vom Hersteller empfohlene Batterien verwendet werden.  
Entsorgung der gebrauchten Batterien nur nach den vom  
Hersteller angegebenen Anweisungen.

# CHAPTER 1. GENERAL DESCRIPTION

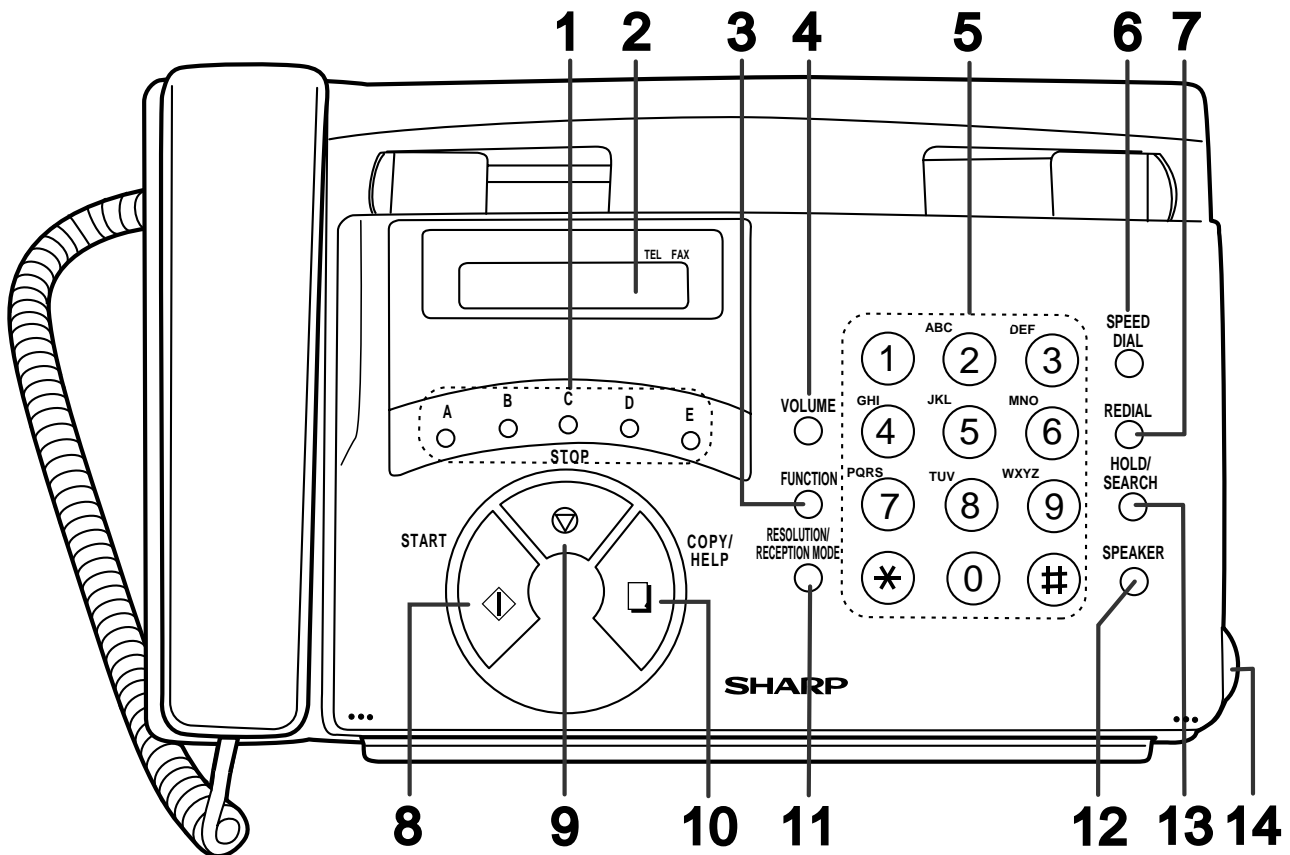
## [1] Specifications

<b>Automatic dialing:</b>	Rapid Key Dialing: 5 numbers Speed Dialing: 35 numbers	<b>Effective scanning width:</b>	8.3" (210 mm) max.
<b>Thermal paper:</b>	Initial starter roll (included with machine): 32 ft. (10 m) Recommended replacement roll: FO-20PRw, 98 ft. (30m), 0.5" core	<b>Effective printing width:</b>	8.3" (210 mm) max.
<b>Paper cutting method:</b>	Automatic cutter	<b>Contrast control:</b>	Automatic/Dark selectable
<b>Modem speed:</b>	9600 bps with automatic fallback to lower speeds	<b>Reception modes:</b>	Fax/Tel
<b>Transmission time* :</b>	Approx. 15 seconds	<b>Copy function:</b>	Yes
<b>Resolution:</b>	<b>Horizontal:</b> 203 pels/inch (8 dots/mm) <b>Vertical:</b> Standard: 98 lines/inch (3.85 lines/mm) Fine/Halftone: 196 lines/inch (7.7 lines/mm) Super fine: 391 lines/inch (15.4 lines/mm)	<b>Telephone function:</b>	Yes (cannot be used if power fails)
<b>Automatic document feeder:</b>	5 pages max. (20 lb paper)	<b>Power requirements:</b>	120 V AC, 60 Hz
<b>Halftone (grayscale):</b>	64 levels	<b>Operating temperature:</b>	41 - 95°F (5 - 35°C)
<b>Display:</b>	16-digit LCD display	<b>Humidity:</b>	Maximum: 85 % RH
<b>Compression scheme:</b>	MR, MH, Sharp (H2)	<b>Power consumption:</b>	Standby: 3.6 W Maximum: 100 W
<b>Applicable telephone line:</b>	Public switched telephone network	<b>Dimensions:</b>	Width: 12.0" (304 mm) Depth: 9.3" (236 mm) Height: 4.8" (122 mm)
<b>Compatibility:</b>	ITU-T (CCITT) G3 mode	<b>Weight:</b>	Approx. 5.7 lbs. (2.6 kg)
<b>Input document size:</b>	<b>Automatic feeding:</b> Width: 5.8 to 8.5" (148 to 216 mm) Length: 5.5 to 11" (140 to 279 mm) <b>Manual feeding:</b> Width: 5.8 to 8.5" (148 to 216 mm) Length: 5.5 to 23.6" (140 to 600 mm)	* Based on ITU-T (CCITT) Test Chart #1 at standard resolution in Sharp special mode, excluding time for protocol signals (i.e., ITU-T phase C time only).	

**Note:** The facsimile machine is Year 2000 compliant.

As a part of our policy of continuous improvement, SHARP reserves the right to make design and specification changes for product improvement without prior notice. The performance specifications figures indicated are nominal values of production units. There may be some deviation from these values in individual units.

## [2] Operation panel



### 1. Rapid Dial keys

Press one of these keys to dial a fax or voice number automatically.

### 2. Display

This displays messages and prompts during operation and programming.

### 3. FUNCTION key

Press this key to select various special functions.

### 4. VOLUME keys

Press these keys to adjust the volume of the speaker when the **SPEAKER** key has been pressed, the volume of the handset when the handset is lifted, or the volume of the ringer at all other times.

### 5. Number keys

Use these keys to dial numbers, and enter numbers and letters storing auto-dial numbers.

### 6. SPEED DIAL key

Press this key to dial a fax or voice number using an abbreviated 2-digit Speed Dial number.

### 7. REDIAL key

Press this key to automatically redial the last number dialed.

### 8. START key

Press this key to begin transmission when using Speed Dialing, Direct Keypad Dialing, or Normal Dialing.

### 9. STOP key

Press this key to cancel operation before it is completed.

### 10. COPY/HELP key

When a document is in the feeder, press this key to make a copy of a document. At any other time, press this key to print out the Help List, a quick reference guide to the operation of your fax machine.

### 11. RESOLUTION/RECEPTION MODE key

When a document is in the feeder, press this key to adjust the resolution for faxing or copying. At any other time, press this key to select the reception mode (an arrow in the display will point to the currently selected reception mode).

### 12. SPEAKER key

Press this key to listen the line and fax tones through the speaker when faxing a document.

Note: **This is not a speakerphone.** You must pick up the handset to talk with the other party.

### 13. HOLD/SEARCH key

Press this key to search for an auto-dial number, or, during a phone conversation, press this key to put the other party on hold.

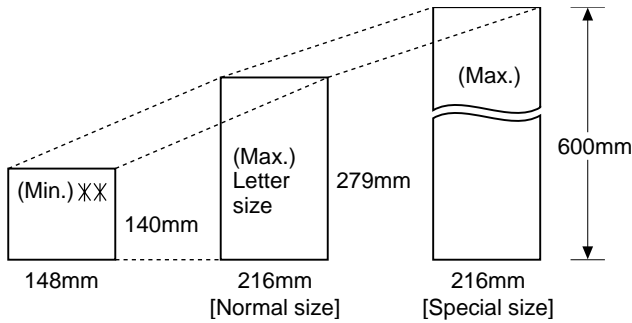
### 14. Panel release

Grasp this finger hold and pull toward you to open the operation panel.

### [3] Transmittable documents

#### 1. Document Sizes

Normal size	width	5.8" – 8.5" (148 – 216 mm)
	length	5.5" – 11" (140 – 279 mm)



XX Use document carrier sheet for smaller documents.

\* With special sizes, only one sheet can be fed into the machine at a time. Insert next page into feeder as current page is being scanned.

#### 2. Paper Thickness & Weight

	4x6 series (788mm x 1091mm x 1000mm sheets)		Square meter series	
	Minimum	Maximum	Minimum	Maximum
Feeder capacity	5 sheets, max.			
Paper weight	45kg	69.2kg	52g/m <sup>2</sup>	80g/m <sup>2</sup>
Paper thickness (ref.)	0.06mm	0.09mm	0.06mm	0.09mm
Paper size	148mm x 140mm ~ A4 (210mm x 297mm), Letter (216mm x 279mm)			

#### 3. Document Types

- Normal paper  
Documents handwritten in pencil (No. 2 lead or softer), fountain pen, ball-point pen, or felt-tipped pen can be transmitted.  
Documents of normal contrast duplicated by a copying machine can also be transmitted.
- Diazo copy (blue print)  
Diazo copy documents of a normal contrast may be transmitted.
- Carbon copy  
A carbon copy may be transmitted if its contrast is normal.

#### 4. Cautions on Transmitting Documents

- Documents written in yellow, greenish yellow, or light blue ink cannot be transmitted.
- Ink, glue, and correcting fluid on documents must be dry before the documents can be transmitted.
- All clips, staples and pins must be removed from documents before transmission.
- Patched (taped) documents should be copied first on a copier and then the copies used for transmission.
- All documents should be fanned before insertion into the feeder to prevent possible double feeds.

#### 5. Automatic Document Feeder Capacity

Number of pages that can be placed into the feeder at anytime is as follows:

Normal size: max. ADF 5 sheets

Special size: single sheet only (manual feed)

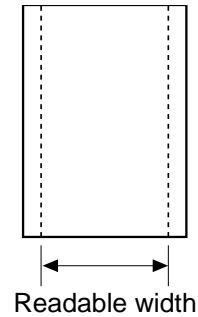
- NOTES:
- When you need to send or copy more pages than the feeder limit, place additional pages in feeder when last page in feeder is being scanned.
  - Place additional pages carefully and gently in feeder. If force is used, double-feeding or a document jam may result.

#### 6. Readable Width & Length

The readable width and length of a document are slightly smaller than the actual document size.

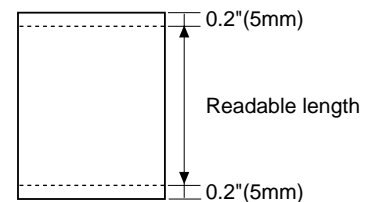
Note that characters or graphics outside the effective document scanning range will not be read.

- **Readable width**  
8.3" (210mm), max.



- **Readable length**

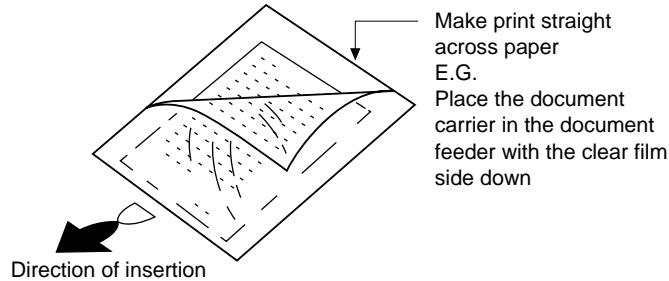
This is the length of the document sent minus 0.2" (5mm) from the top and bottom edges.



## 7. Use of Document Carrier Sheet

A document carrier sheet must be used for the following documents.

- Those with tears.
- Those smaller than size 5.8" (W) x 5.5" (L) (148mm (W) x 140mm (L)).
- Carbon-backed documents



NOTE: To transmit a carbon-backed document, insert a white sheet of paper between the carbon back of the document and the document carrier.

- Those containing an easily separable writing substance (e.g., tracing paper written on with a soft, heavy lead pencil).

NOTES: • When using the document carrier, carefully read the instructions written on the back.

- If the document carrier is dirty, clean it with a soft, moist cloth, and then dry it before using for transmission.
- Do not place more than one document in the carrier at a time.

## [4] Installation

### 1. Site selection

Take the following points into consideration when selecting a site for this model.

#### ENVIRONMENT

- The machine must be installed on a level surface.
- Keep the machine away from air conditioners, heaters, direct sunlight, and dust.
- Provide easy access to the front, back, and sides of the machine. In particular, keep the area in front of the machine clear, or the original document may jam as it comes out after scanning.
- The temperature should be between 5° and 35°C.
- The humidity should be between 30% and 85% (without condensation).

#### ELECTRICITY

AC 120V, 60Hz, grounded (3-prong) AC outlet is required.

#### Caution!

- Connection to a power source other than that specified will cause damage to the equipment and is not covered under the warranty.
- If your area experiences a high incidence of lightning or power surges, we recommend that you install a surge protector for the power and telephone lines. Surge protectors can be purchased at most telephone specialty stores.

#### If the machine is moved from a cold to a warm place...

Condensation may form on the reading glass if machine is moved from a cold to a warm place, this will prevent proper scanning of documents for transmission. Turn on the power and wait approximately 2 hours before using machine.

## TELEPHONE JACK

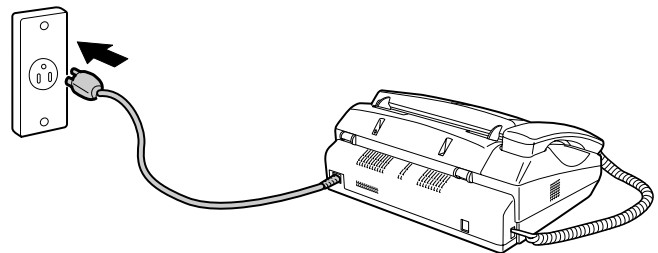
A standard RJ11C telephone jack must be located near the machine. This is the telephone jack commonly used in most homes and offices.

- Plugging the fax machine into a jack which is not an RJ11C jack may result in damage to the machine or your telephone system. If you do not know what kind of jack you have, or need to have one installed, contact the telephone company.

## 2. Assembly and connections

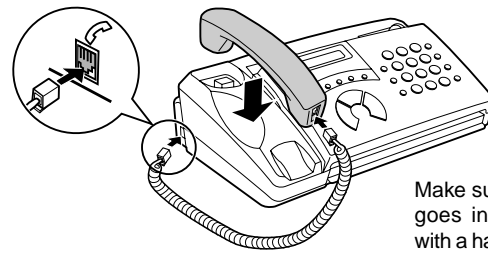
① Plug the power cord into a 120 V, 60 Hz, grounded (3-prong) AC outlet.

- **Caution:** Do not plug the power cord into any other kind of outlet. This will damage the machine and is not covered under the warranty.
- The machine does not have a power on/off switch, so the power is turned on and off by simply plugging in or unplugging the power cord.



② Connect the handset as shown and place it on the handset rest.

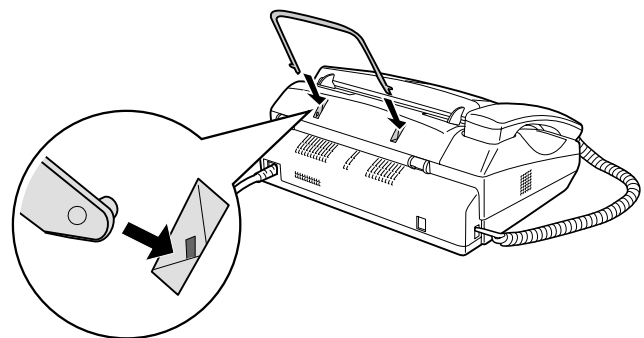
- The ends of the handset cord are identical, so they will go into either jack.



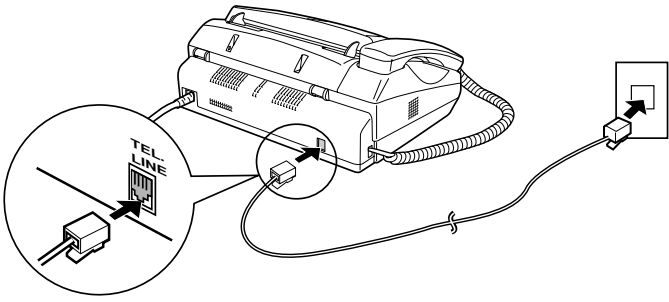
Make sure the handset cord goes into the jack marked with a handset symbol on the side of the machine!

Use the handset to make ordinary phone calls, or to transmit and receive faxes manually.

③ Attach the original document support as shown below.



- ④ Insert one end of the line cord into the jack on the back of the machine marked **TEL. LINE**. Insert the other end into a standard (RJ11C) single-line wall telephone jack.



**Note:** The fax machine is set for touch-tone dialing. If you are on a pulse dial (rotary) line, you must set the fax machine for pulse dialing. Press the keys on the operation panel as follows:

1. Press these keys:

The display will show:

DIAL MODE

FUNCTION



2. Press **1** to select tone (touch-tone) dialing, or **2** to select pulse (rotary) dialing.

1 or 2



or



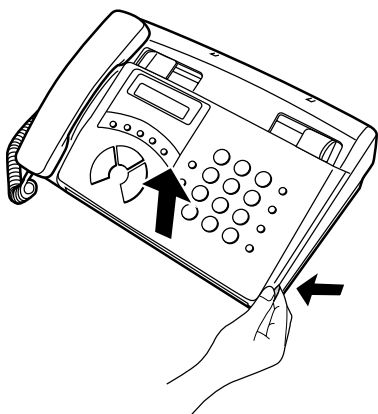
3. Press the **STOP** key to return to the date and time display.

STOP

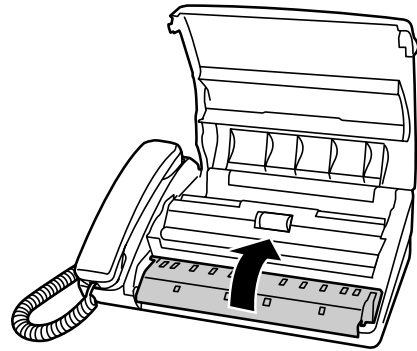


### 3. Removing the packing paper

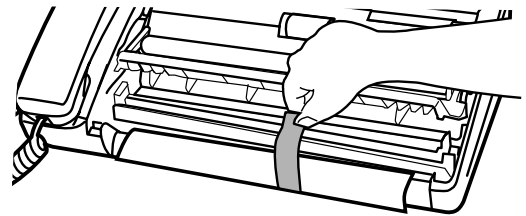
- ① Grasp the finger hold and pull up to open the operation panel.



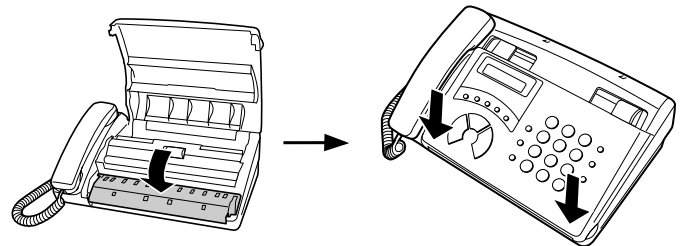
- ② Flip up the front paper guide.



- ③ Remove the tape and packing paper from the cutter unit.



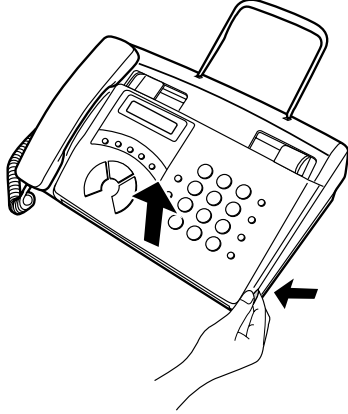
- ④ Flip down the front paper guide and then close the operation panel.



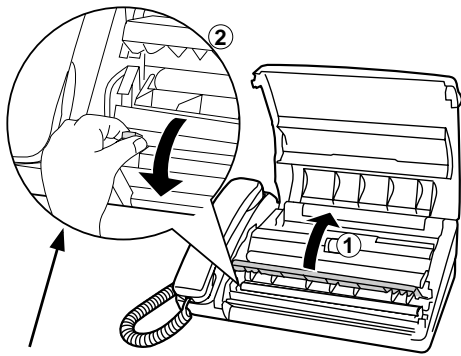
#### 4. Loading the thermal paper (FO-20PRw)

- Your fax machine prints incoming faxes on a special kind of paper called thermal paper.
- The fax machine's print head creates text and images by applying heat to the thermal paper.

① Grasp the finger hold as shown and pull up to open the operation panel.



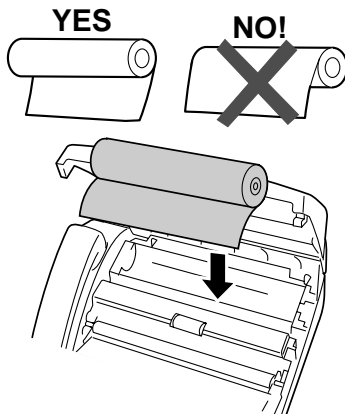
② Flip up the front paper guide.



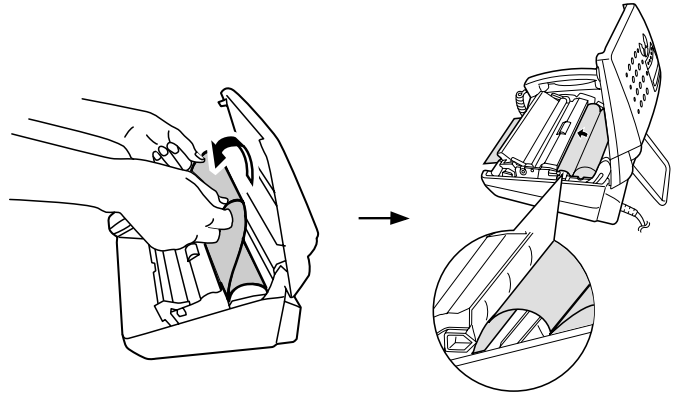
Press the knob to make sure the front side of the metal guide is down.

③ Unwrap the roll of thermal paper and place it in the compartment.

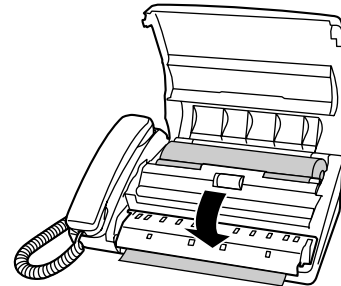
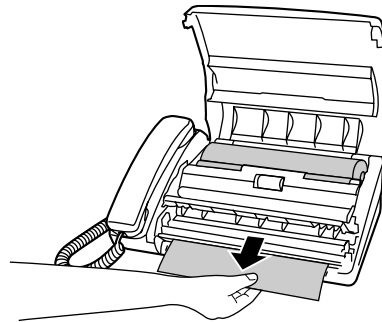
- ◆ **Important:** The roll must be placed so the leading edge of the paper unrolls as shown. (The paper is only coated on one side for printing. If the roll is placed backwards, the paper will come out blank after printing.)



④ Insert the leading edge of the paper into the slot as shown. Continue to push the paper through the slot until it comes out the opening in the front of the machine.

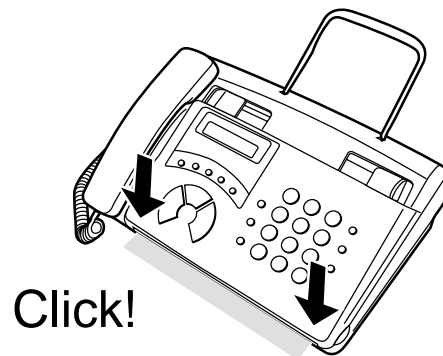


⑤ Make sure the paper comes out straight, and then flip down the paper guide.



⑥ Close the operation panel, making sure it clicks into place.

- A short length of the paper will be cut off.





### 5. Clearing a jammed document

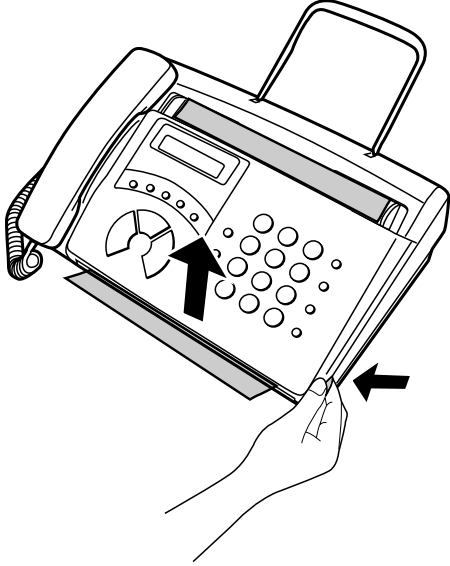
If the original document doesn't feed properly during transmission or copying, or DOCUMENT JAMMED appears in the display, first try pressing the **START** key. If the document doesn't feed out, open the operation panel and remove it.

**Important:**

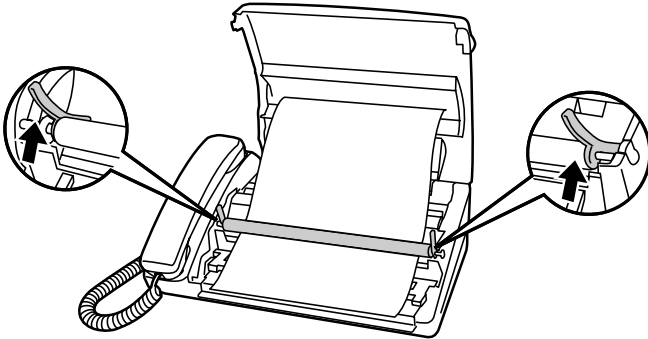
Do not try to remove a document without first releasing it as explained below.

This may damage the feeder mechanism.

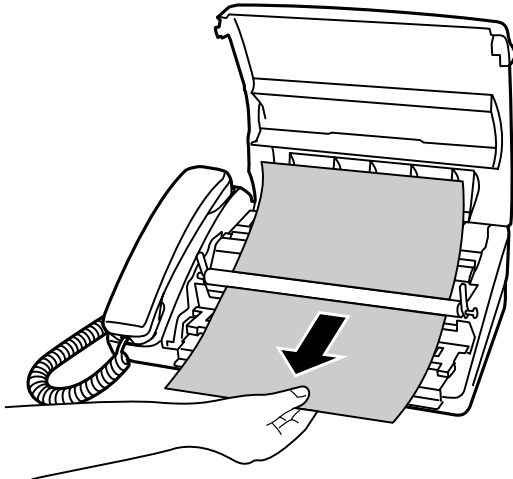
- ① Grasp the finger hold and pull up to open the operation panel.



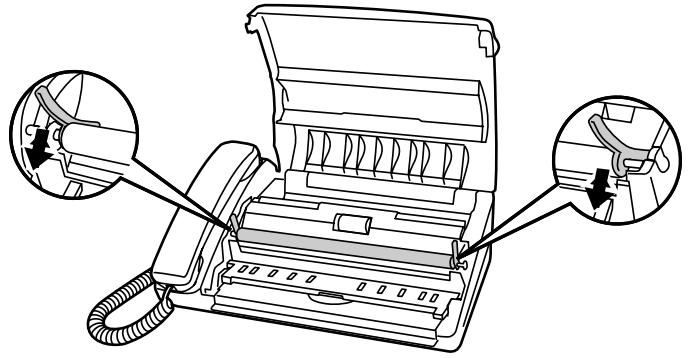
- ② Flip up the green levers on each side of the white roller.



- ③ Remove the document.

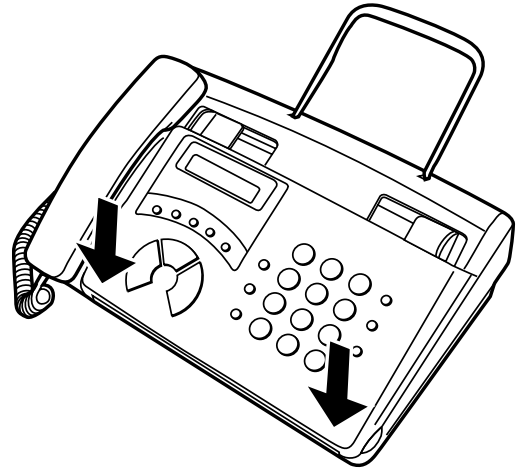


- ④ Flip down the green levers on each side of the white roller.



- ⑤ Close the operation panel, making sure it clicks into place.

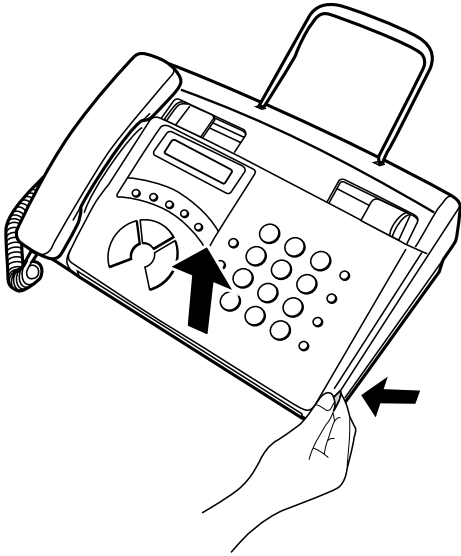
- Press down on both front corners of the panel to make sure it clicks into place.



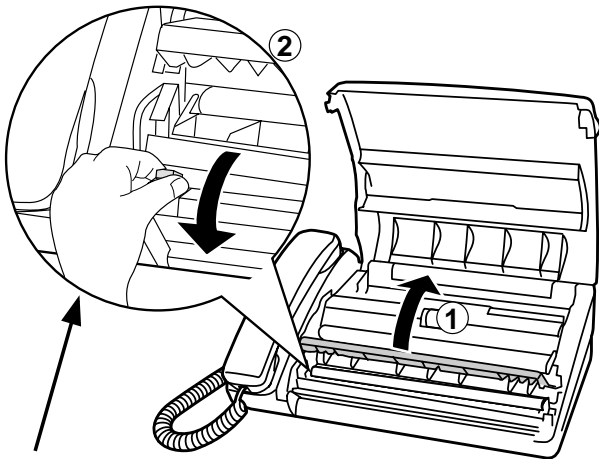
## 6. Clearing jammed paper

If the thermal paper jams, PAPER JAMMED will appear in the display. Follow the steps below to clear the jam.

- ① Grasp the finger hold and pull up to open the operation panel.



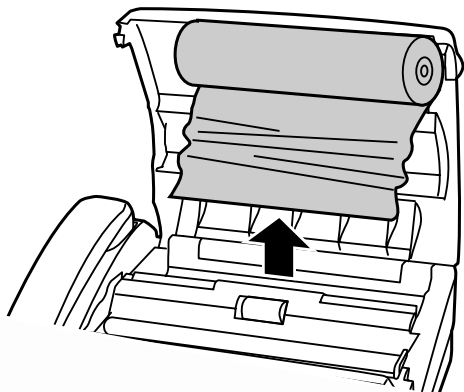
- ② Flip up the front paper guide.



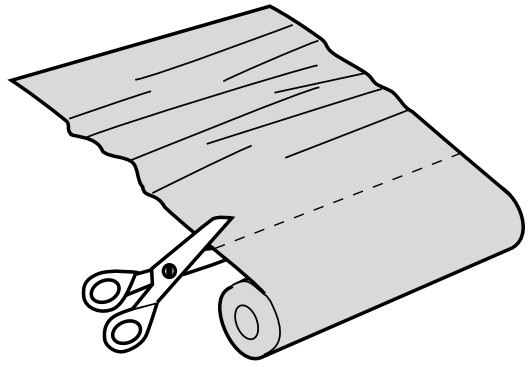
Press the knob to make sure the front side of the metal guide is down.

- ③ Remove the paper roll.

- Remove any cut pieces of paper from the paper compartment.

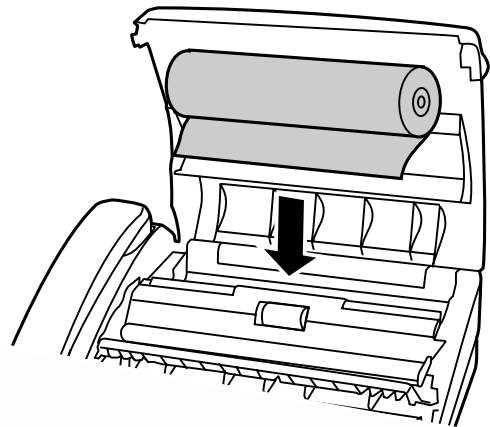


- ④ Cut off the wrinkled part of the paper.



- ⑤ Reload the paper.

- Jammed paper is often caused by improper loading. Be sure to carefully follow the instructions for paper loading given in Loading the Thermal Paper.



## [5] Quick reference guide

### ENTERING YOUR NAME AND NUMBER

- Press: **3** **#** **#** **#**  
Display shows: **OWN NUMBER SET**
- Press:
- Enter your fax number (max. of 20 digits) by pressing the number keys.
  - To insert a space between digits, press the **#** key.
  - If you make a mistake, press the **SPEED DIAL** key to backspace and clear the mistake.
- Press:
- Enter your name by pressing the appropriate number keys as shown below.
  - To enter two letters in succession that require the same key, press the **SPEAKER** key after entering the first letter.

SPACE = <b>1</b> <b>1</b>	J = <b>5</b> <b>5</b>	T = <b>8</b> <b>8</b>
A = <b>2</b> <b>2</b>	K = <b>5</b> <b>5</b> <b>5</b>	U = <b>8</b> <b>8</b> <b>8</b>
B = <b>2</b> <b>2</b> <b>2</b>	L = <b>5</b> <b>5</b> <b>5</b> <b>5</b>	V = <b>8</b> <b>8</b> <b>8</b> <b>8</b>
C = <b>2</b> <b>2</b> <b>2</b> <b>2</b>	M = <b>6</b> <b>6</b>	W = <b>9</b> <b>9</b>
D = <b>3</b> <b>3</b>	N = <b>6</b> <b>6</b> <b>6</b>	X = <b>9</b> <b>9</b> <b>9</b>
E = <b>3</b> <b>3</b> <b>3</b>	O = <b>6</b> <b>6</b> <b>6</b> <b>6</b>	Y = <b>9</b> <b>9</b> <b>9</b> <b>9</b>
F = <b>3</b> <b>3</b> <b>3</b> <b>3</b>	P = <b>7</b> <b>7</b>	Z = <b>9</b> <b>9</b> <b>9</b> <b>9</b> <b>9</b>
G = <b>4</b> <b>4</b>	Q = <b>7</b> <b>7</b> <b>7</b>	
H = <b>4</b> <b>4</b> <b>4</b>	R = <b>7</b> <b>7</b> <b>7</b> <b>7</b>	
I = <b>4</b> <b>4</b> <b>4</b> <b>4</b>	S = <b>7</b> <b>7</b> <b>7</b> <b>7</b> <b>7</b>	

- To change case, press the **REDIAL** key.  
Press **#** or **×** to scroll through symbols and special characters.

- When finished, press:

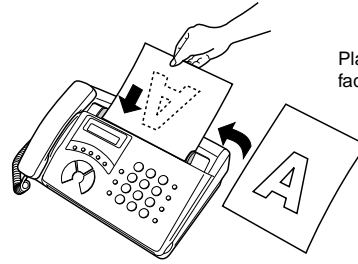
### SETTING THE DATE AND TIME

- Press: **3** **#** **#** **#**  
Display shows: **DATE & TIME SET**
- Press:
- Enter two digits for the Month (01 through 12).
- Enter two digits for the Day (01 through 31).
- Enter four digits for the Year (Ex: 1999).
- Enter two digits for the Hour (01 through 12).
- Enter two digits for the Minute (00 through 59).
- Press the **×** key for A.M. or the **#** key for P.M.
- When finished, press:

### STORING AND CLEARING AUTO DIAL NUMBERS

- Press: **3** **#**  
Display shows: **FAX/TEL # MODE**
- Press **1** to store a number or **2** to clear a number.
- Enter a 2-digit Speed Dial number (from 01 to 05 for Rapid Key Dialing, or 06 to 40 for Speed Dialing) (If you are clearing a number, go to Step 7.)
- Enter the full telephone/fax number.
- Press:
- Enter the name of the location by pressing number keys (Refer to the letter entry table in *ENTERING YOUR NAME AND NUMBER*.)
- Press:

### SENDING FAXES



Place your document (up to 5 pages) face down in the document feeder.

#### Normal Dialing

- Lift the handset or press
- Dial the fax number.
- Wait for the reception tone (if a person answers, ask them to press their Start key).
- Press:

#### Rapid Key Dialing

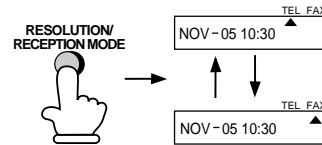
Press the appropriate Rapid Key. Transmission will begin automatically.

#### Speed Dialing

- Press:
- Enter 2-digit Speed Dial number.
- Press:

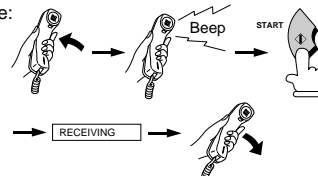
### RECEIVING FAXES

Press the **RESOLUTION/RECEPTION MODE** key until the arrow in the display points to the desired reception mode (make sure the document feeder is empty).



**FAX mode:** The fax machine automatically answers on four rings and receives the incoming document.

**TEL mode:**



### SETTING THE DISPLAY LANGUAGE

- Press: **4** **#** **#** **#**
- Press:
- Press the **#** key or **×** key until the desired language appears in the display.
- Press:
- Press:

[6] Quick setup guide (UX-66U only)

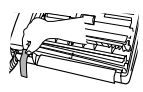
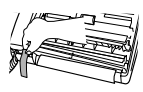


# SHARP® UX-66 FAX

## QUICK SETUP GUIDE

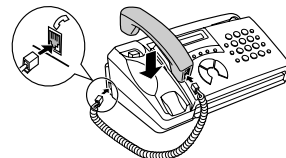
Note: To enter your name and fax number and set the date and time so that they appear on the automatic cover sheet, see pages 19 - 25 of your operation manual.

**1** Remove the packing paper.

1. Grasp the finger hold and pull up to open the operation panel.
2. Flip up the front paper guide.
3. Remove the tape and packing paper.
4. Flip down the front paper guide and close the operation panel.

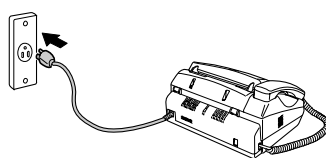


**2** Connect the handset and place it on the handset rest.

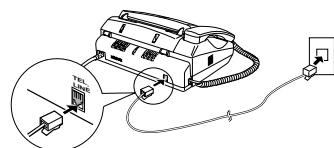


Note: Make sure that the area in front of the machine is clear.

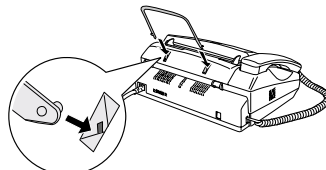
**3** Plug the power cord into a 120 v, 60Hz, grounded AC (3-prong) outlet.



**4** Connect the telephone line cord to the **TEL. LINE** jack and a wall telephone jack.

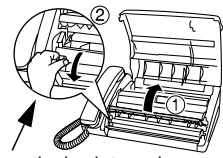



**5** Attach the document support.


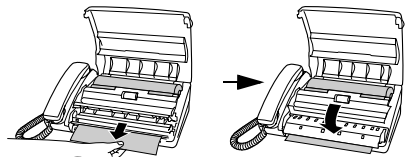
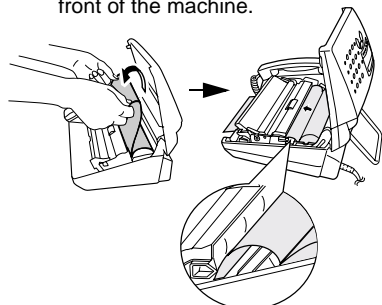
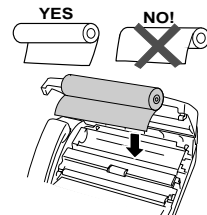


**6** Load the thermal paper.

1. Grasp the finger hold and pull up to open the operation panel.
2. Flip up the front paper guide.
3. Unwrap the roll of thermal paper and place it in the compartment.
4. Insert the leading edge of the paper into the slot. Push the paper through until it comes out the opening on the front of the machine.
5. Make sure the paper comes out straight, and then flip down the paper guide.
6. Close the operation panel, making sure it clicks into place.



Press the knob to make sure the front side of the metal guide is down.



(TCADZ2869XHZZ)