

**FAX UNIT TYPE 250**  
**- NEW -**  
**(Machine Code: A804)**  
**SERVICE MANUAL**

**Important Notices**

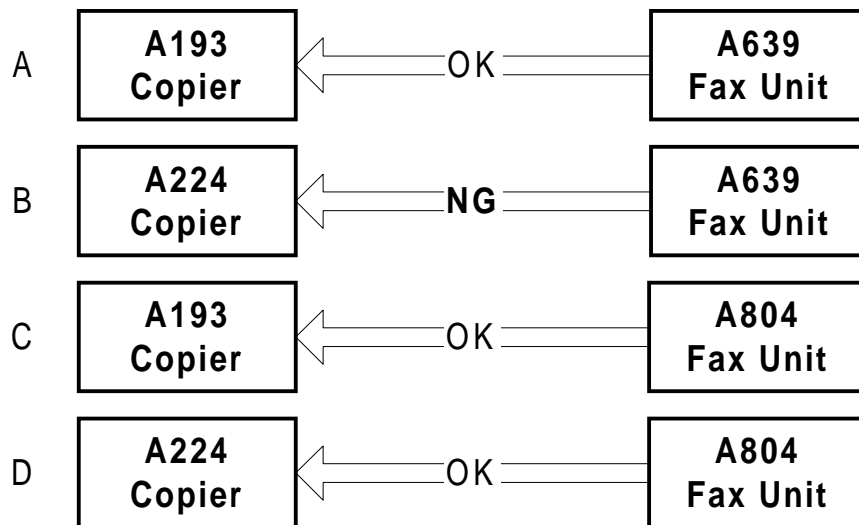
1. There are two types of FAX UNIT TYPE 250.  
The existing one (machine code: A639) is only for the A193 copier, and the new one (machine code: A804) is for the A193 and A224 copiers.  
  
To prevent the existing type of fax unit from being installed in the A224 copier, carefully check the machine codes of the copier and the fax unit before installation.
2. This manual describes only the differential information between the existing and new FAX UNIT TYPE 250, and information updated since the A639 Fax Unit was released.

# 1. OVERALL INFORMATION

## 1.1 SPECIFICATIONS

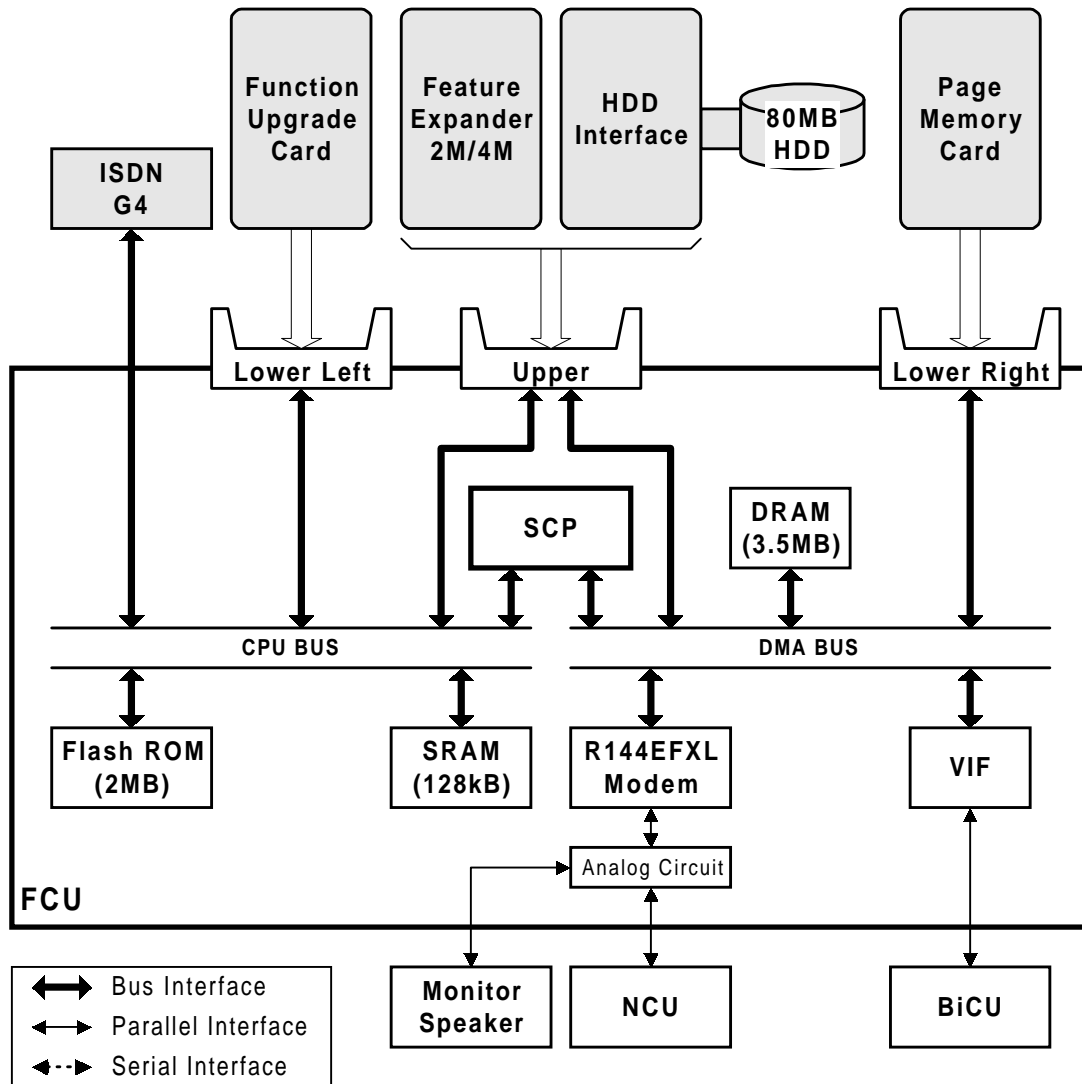
	<b>A639 (Existing Fax Unit)</b>	<b>A804 (New Fax Unit)</b>
<b>Base Copier to be used with</b>	A193 Copier	A193 and A224 Copiers
	Refer to the diagram below for all possible combinations.	
<b>Original Scan Speed</b>	Standard: 1.6 s Detail: 1.6 s Fine: 3.3 s	Standard: 1.3 s Detail: 1.3 s Fine: 2.6 s
<b>SAF Memory Capacity (Measured using an ITU-T #1 Test Chart at Standard resolution)</b>	Standard: 1MB (80 pages) With 2MB option: 3MB (240 pages) With 4MB option: 5MB (400 pages) With HDD option: 80MB (1200 pages)	Standard: 2MB (160 pages) With 2MB option: 4MB (320 pages) With 4MB option: 6MB (480 pages) With HDD option: 80MB (1200 pages)
<b>Options</b>	Feature Expander 2M/4M/80M Function Upgrade Card 400dpi Page Memory Card ISDN G4	Same as A639 Fax Unit.

### Possible Combinations and Results



A804V501.wmf

### 1.2 OVERALL MACHINE CONTROL



A804V500.wmf

The system block diagram is the same as the current A639 Fax Unit, except for the following:

- The DRAM size is increased to 3.5MB (SAF - 2MB, Page Memory - 1MB, ECM - 128kB, and Buffer - 384kB)
- The clock speed used between VIF and BiCU is increased from 7.03MHz to 10.55 MHz.

---

## 2. DETAILED DESCRIPTIONS

### 2.1 DOUBLE-SIDED ORIGINAL TRANSMISSION

This function becomes available with both A639 and A804 Fax Units if the optional Automatic Reverse Document Feeder (A661).

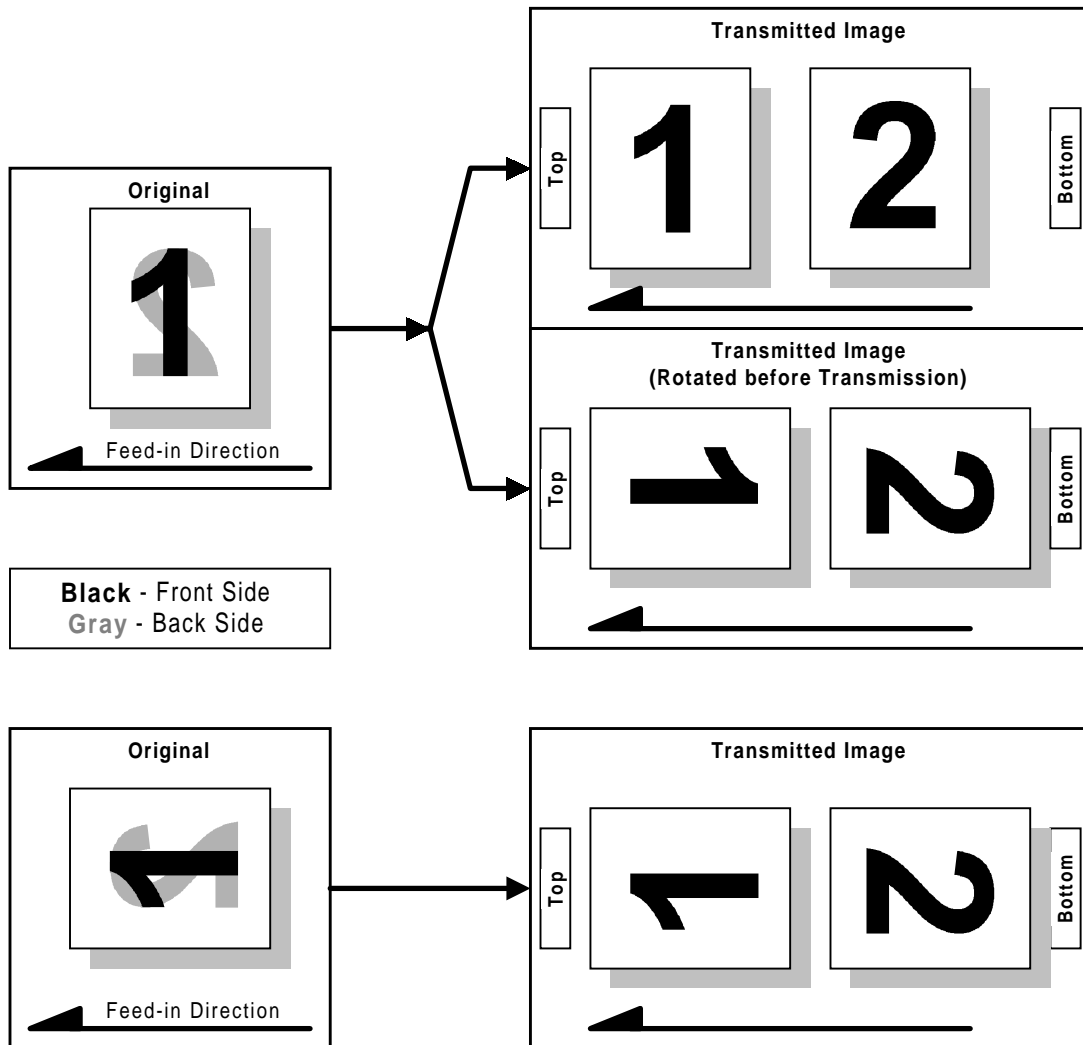
Using this function allows the machine to scan and transmit double-sided originals. However, in some cases, the transmitted image orientations differ between odd and even number pages, because of the ARDF switch-back mechanism and the image rotation before transmission function.

The following diagrams show how images are transmitted in various cases. However, the transmitted image may not be the same as the image printed at the other end due to the receiver's printing functions (e.g., image rotation printing).

#### **Cross Reference**

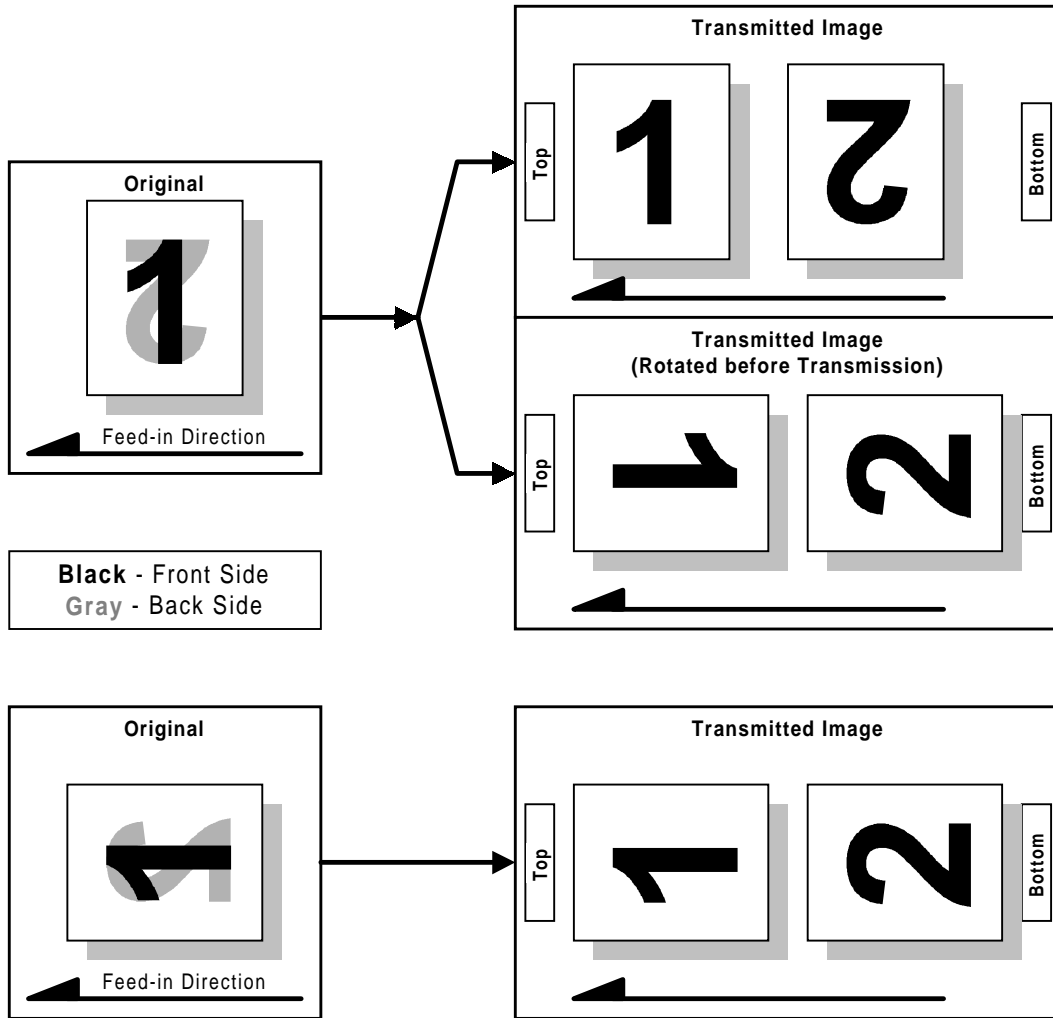
Image Rotation On/Off - Scanner Switch 0F, bit 0

### 2.1.1 Portrait Original - Side Binding



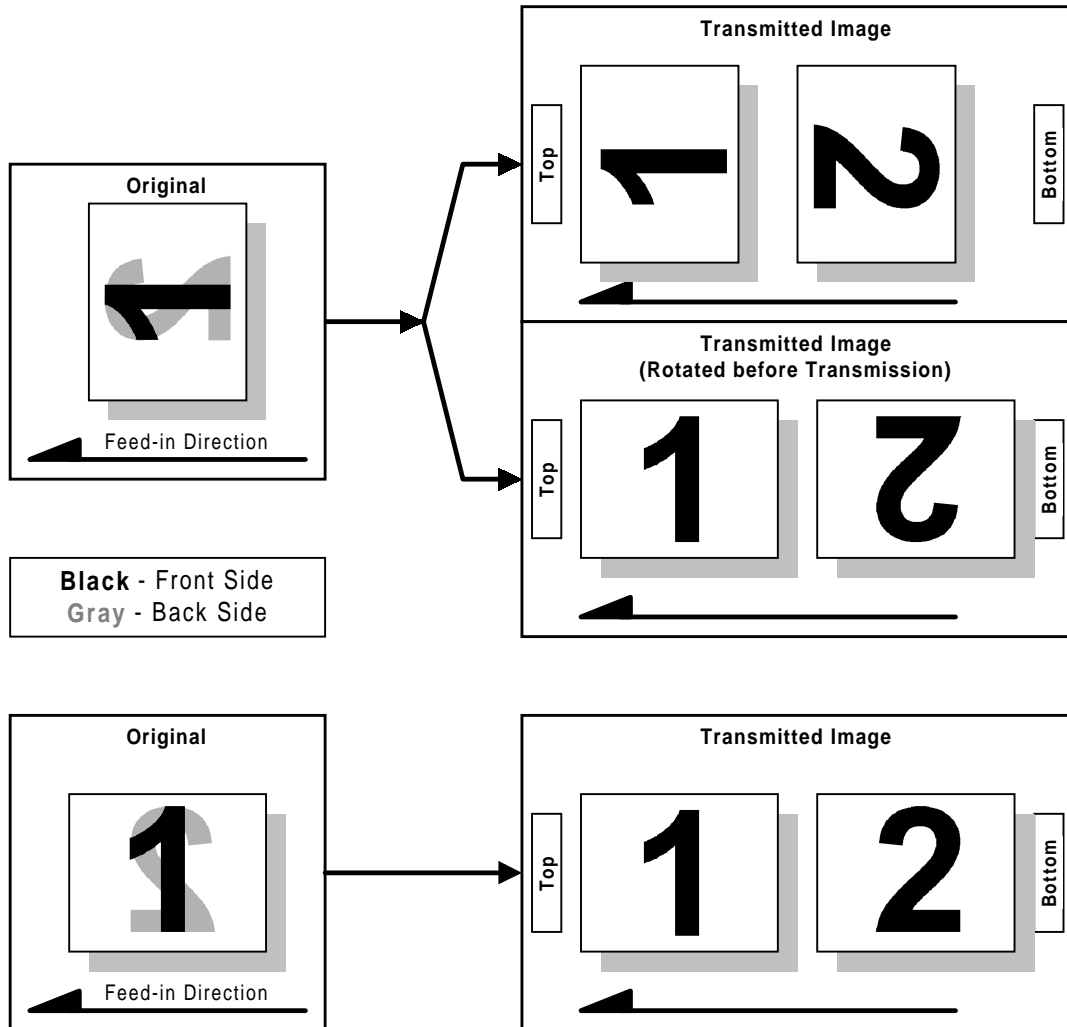
A804D501.wmf

### 2.1.2 Portrait Original - Top Binding



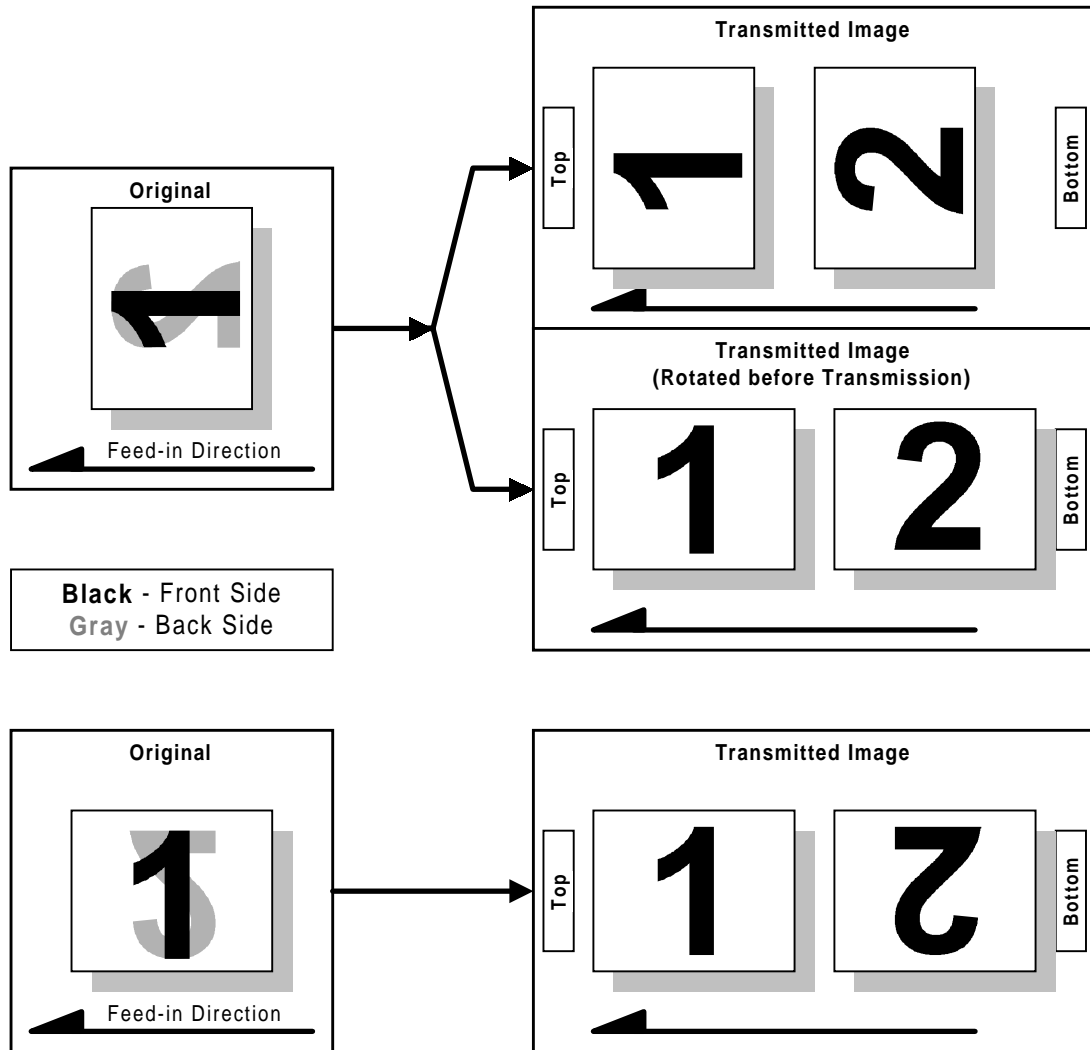
A804D502.wmf

### 2.1.3 Landscape Original - Side Binding



A804D503.wmf

### 2.1.4 Landscape Original - Top Binding







## 2.2 PAPER SIZE SELECTION PRIORITIES










































The following tables are updated from the A639 service manual.

Page Reduction	Disabled
Reduction in Sub-scan Direction	Disabled
Page Separation Threshold	
Width or Length Priority	Width

 : Image Rotation

 : Half of the page is blank




 : Page Reduction

		Received Image Size										
		A3	B4	A4	A4	B5	A5	11x17"	8.5x14"	8.5x11"	8.5x11"	F/F4
Paper Select Priorities	1	A3	B4	A4	A4	B5	A5	11x17"	8.5x14"	8.5x11"	8.5x11"	F/F4
	2	11x17"	A3	A4 	A4 	B5 	8.5x11"	A3	A4	8.5x11" 	8.5x11" 	8.5x14"
	3	A4 	11x17"	F/F4	8.5x11" 	B4	8.5x11" 	A4 	A4 	A4	A3	A4
	4	A4 	B5	8.5x14"	8.5x11" 	A4	A4	A4 	8.5x11" 	A4 	11x17"	A4 
	5	8.5x11" 	B5	A3 	A3 	A4	A4	8.5x11" 	8.5x11" 	F/F4	A4	8.5x11" 
	6	8.5x11" 	A4	8.5x11" 	F/F4	8.5x11" 	F/F4	8.5x11" 	F/F4	8.5x14"	A4	8.5x11" 
	7	F/F4	A4 	8.5x11" 	11x17"	8.5x11" 	8.5x14"	F/F4	B4	A3	F/F4	B4
	8	B4	8.5x11" 	B4	B4	F/F4	B5	B4	A3	B4	B4	A3
	9	8.5x14"	8.5x11" 	11x17"	8.5x14"	A3	B5	8.5x14" 	11x17"	11x17"	8.5x14"	11x17"
	10		F/F4 	A5		11x17"	A3 		A5	A5		A5 
	11		8.5x14" 	B5		8.5x14" 	B4		B5	B5		B5 
	12			B5 			11x17"		B5	B5		B5 

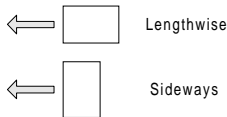
 Lengthwise

 Sideways


Page Reduction	Disabled
Reduction in Sub-scan Direction	Enabled
Page Separation Threshold	20 mm
Width or Length Priority	Width


-  : Image Rotation
-  : Half of the page is blank
-  : Page Reduction

		Received Image Size										
		A3	B4	A4	A4	B5	A5	11x17"	8.5x14"	8.5x11"	8.5x11"	F/F4
Paper Select Priorities	1	A3	B4	A4	A4	B5	A5	A3	8.5x14"	8.5x11"	A4	F/F4
	2	11x17"	A3	A4	A4	B5	8.5x11"	11x17"	A4	8.5x11"	A4	8.5x14"
	3	A4	11x17"	F/F4	8.5x11"	B4	8.5x11"	A4	A4	A4	8.5x11"	A4
	4	A4	B5	8.5x14"	8.5x11"	A4	A4	A4	8.5x11"	A4	8.5x11"	A4
	5	8.5x11"	B5	A3	A3	A4	A4	8.5x11"	8.5x11"	F/F4	A3	8.5x11"
	6	8.5x11"	A4	8.5x11"	F/F4	8.5x11"	F/F4	8.5x11"	F/F4	8.5x14"	F/F4	8.5x11"
	7	F/F4	A4	8.5x11"	11x17"	8.5x11"	8.5x14"	F/F4	B4	A3	11x17"	B4
	8	B4	8.5x11"	B4	B4	F/F4	B5	B4	A3	B4	B4	A3
	9	8.5x14"	8.5x11"	11x17"	8.5x14"	A3	B5	8.5x14"	11x17"	11x17"	8.5x14"	11x17"
	10		F/F4	A5		11x17"	A3		A5	A5		A5
	11		8.5x14"	B5		8.5x14"	B4		B5	B5		B5
	12			B5			11x17"		B5	B5		B5






























Page Reduction	Disabled
Reduction in Sub-scan Direction	Disabled
Page Separation Threshold	
Width or Length Priority	Length

 : Image Rotation

 : Half of the page is blank




 : Page Reduction

		Received Image Size										
		A3	B4	A4	A4	B5	A5	11x17"	8.5x14"	8.5x11"	8.5x11"	F/F4
Paper Select Priorities	1	A3	B4	A4	A4	B5	A5	11x17"	8.5x14"	8.5x11"	8.5x11"	F/F4
	2	11x17"	A3	A4 	A4 	B5 	8.5x11"	A3	B4	8.5x11" 	8.5x11" 	8.5x14"
	3	A4	11x17"	F/F4	8.5x11" 	B4	8.5x11" 	A4	A3	A4	F/F4	B4
	4	A4 	B5	8.5x14"	8.5x11" 	A4	A4	A4 	11x17"	A4 	A3	A3
	5	8.5x11" 	B5	A3 	A3	A4	A4	8.5x11" 	A4	F/F4	11x17"	11x17"
	6	8.5x11" 	A4	B4	F/F4	8.5x11" 	F/F4	8.5x11" 	A4	8.5x14"	B4	A4
	7	F/F4	A4 	11x17"	11x17"	8.5x11" 	8.5x14"	F/F4	8.5x11" 	A3	8.5x14"	A4 
	8	B4	8.5x11" 	8.5x11"	B4	F/F4	A3	B4	8.5x11" 	B4	A4	8.5x11" 
	9	8.5x14"	8.5x11" 	8.5x11" 	8.5x14"	A3	B4	8.5x14"	F/F4	11x17"	A4	8.5x11" 
	10		F/F4	A5		11x17"	11x17"		A5	A5		A5
	11		8.5x14"	B5		8.5x14"	B5		B5	B5		B5
	12			B5			B5		B5	B5		B5

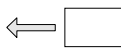
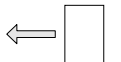
 Lengthwise

 Sideways

Page Reduction	Disabled
Reduction in Sub-scan Direction	Enabled
Page Separation Threshold	20 mm
Width or Length Priority	Length




-  : Image Rotation
-  : Half of the page is blank
-  : Page Reduction

		Received Image Size										
		A3	B4	A4	A4	B5	A5	11x17"	8.5x14"	8.5x11"	8.5x11"	F/F4
Paper Select Priorities	1	A3	B4	A4	A4	B5	A5	A3	8.5x14"	8.5x11"	A4	F/F4
	2	11x17"	A3	A4	A4	B5	8.5x11"	11x17"	B4	8.5x11"	A4	8.5x14"
	3	A4	11x17"	F/F4	8.5x11"	B4	8.5x11"	A4	A3	A4	8.5x11"	B4
	4	A4	B5	8.5x14"	8.5x11"	A4	A4	A4	11x17"	A4	8.5x11"	A3
	5	8.5x11"	B5	A3	A3	A4	A4	8.5x11"	A4	F/F4	A3	11x17"
	6	8.5x11"	A4	B4	F/F4	8.5x11"	F/F4	8.5x11"	A4	8.5x14"	F/F4	A4
	7	F/F4	A4	11x17"	11x17"	8.5x11"	8.5x14"	F/F4	8.5x11"	A3	11x17"	A4
	8	B4	8.5x11"	8.5x11"	B4	F/F4	A3	B4	8.5x11"	B4	B4	8.5x11"
	9	8.5x14"	8.5x11"	8.5x11"	8.5x14"	A3	B4	8.5x14"	F/F4	11x17"	8.5x14"	8.5x11"
	10		F/F4	A5		11x17"	11x17"		A5	A5		A5
	11		8.5x14"	B5		8.5x14"	B5		B5	B5		B5
	12			B5			B5		B5	B5		B5

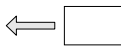

-  Lengthwise
-  Sideways

A801D513.wmf

Page Reduction	Enabled
Reduction in Sub-scan Direction	Enabled
Page Separation Threshold	20 mm
Width or Length Priority	Width


-  : Image Rotation
-  : Half of the page is blank
-  : Page Reduction


		Received Image Size										
		A3	B4	A4	A4	B5	A5	11x17"	8.5x14"	8.5x11"	8.5x11"	F/F4
Paper Select Priorities	1	A3	B4	A4	A4	B5	A5	A3	8.5x14"	8.5x11"	A4	F/F4
	2	11x17"	A4	A4	A4	B5	8.5x11"	11x17"	A4	8.5x11"	A4	8.5x14"
	3	B4	A4	F/F4	8.5x11"	B4	8.5x11"	B4	A4	A4	8.5x11"	A4
	4	A4	F/F4	8.5x14"	8.5x11"	A4	A4	A4	8.5x11"	A4	8.5x11"	A4
	5	A4	8.5x14"	A3	A3	A4	A4	A4	8.5x11"	F/F4	A3	8.5x11"
	6	8.5x11"	A3	8.5x11"	F/F4	8.5x11"	F/F4	8.5x11"	F/F4	8.5x14"	F/F4	8.5x11"
	7	8.5x11"	11x17"	8.5x11"	11x17"	8.5x11"	8.5x14"	8.5x11"	B4	A3	11x17"	B4
	8	F/F4	B5	B4	B4	F/F4	B5	F/F4	A3	B4	B4	A3
	9	8.5x14"	B5	11x17"	8.5x14"	A3	B5	8.5x14"	11x17"	11x17"	8.5x14"	11x17"
	10		8.5x11"	A5		11x17"	A3		A5	A5		A5
	11		8.5x11"	B5		8.5x14"	B4		B5	B5		B5
	12			B5			11x17"		B5	B5		B5


-  Lengthwise
-  Sideways

A801D514.wmf

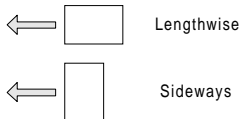
Page Reduction	Enabled
Reduction in Sub-scan Direction	Enabled
Page Separation Threshold	20 mm
Width or Length Priority	Width

 : Image Rotation

 : Half of the page is blank

 : Page Reduction

		Received Image Size										
		A3	B4	A4	A4	B5	A5	11x17"	8.5x14"	8.5x11"	8.5x11"	F/F4
Paper Select Priorities	1	A3	B4	A4	A4	B5	A5	A3	8.5x14"	8.5x11"	A4	F/F4
	2	11x17"	A4	A4	A4	B5	8.5x11"	11x17"	A4	8.5x11"	A4	8.5x14"
	3	B4	A4	F/F4	8.5x11"	B4	8.5x11"	B4	A4	A4	8.5x11"	A4
	4	A4	F/F4	8.5x14"	8.5x11"	A4	A4	A4	8.5x11"	A4	8.5x11"	A4
	5	A4	8.5x14"	A3	A3	A4	A4	A4	8.5x11"	F/F4	A3	8.5x11"
	6	8.5x11"	A3	8.5x11"	F/F4	8.5x11"	F/F4	8.5x11"	F/F4	8.5x14"	F/F4	8.5x11"
	7	8.5x11"	11x17"	8.5x11"	11x17"	8.5x11"	8.5x14"	8.5x11"	B4	A3	11x17"	B4
	8	F/F4	B5	B4	B4	F/F4	B5	F/F4	A3	B4	B4	A3
	9	8.5x14"	B5	11x17"	8.5x14"	A3	B5	8.5x14"	11x17"	11x17"	8.5x14"	11x17"
	10		8.5x11"	A5		11x17"	A3		A5	A5		A5
	11		8.5x11"	B5		8.5x14"	B4		B5	B5		B5
	12			B5			11x17"		B5	B5		B5



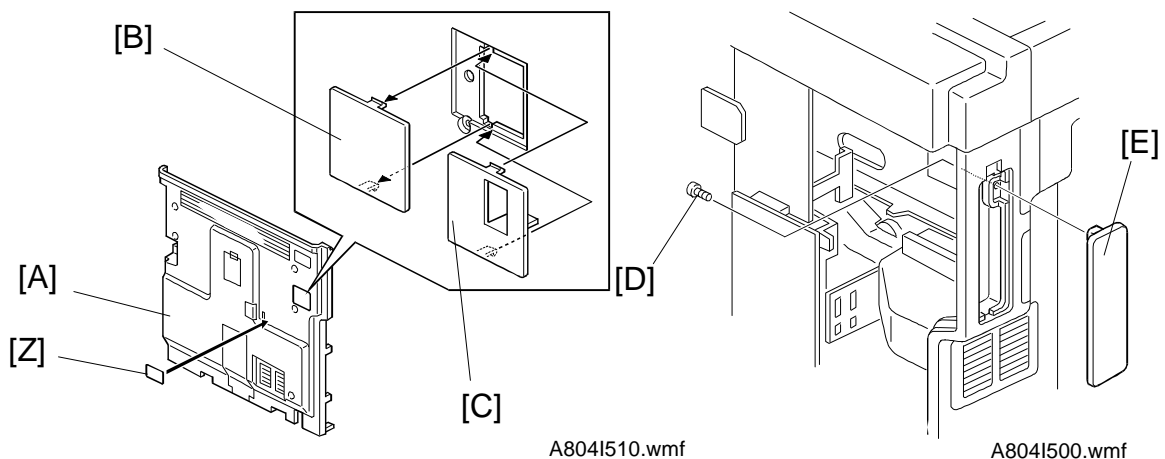
A804D515.wmf

### 3. INSTALLATION

- NOTE:**
1. Never install telephone wiring during a lightning storm.
  2. Never install telephone jacks in wet locations unless the jack is specifically designed for wet locations.
  3. Never touch uninsulated telephone wires or terminals unless the telephone line has been disconnected at the network interface.
  4. Use caution when installing or modifying telephone lines.
  5. Avoid using a telephone (other than a cordless type) during an electrical storm. There may be a remote risk of electric shock from lightning.
  6. Do not use the telephone to report a gas leak in the vicinity of the leak.

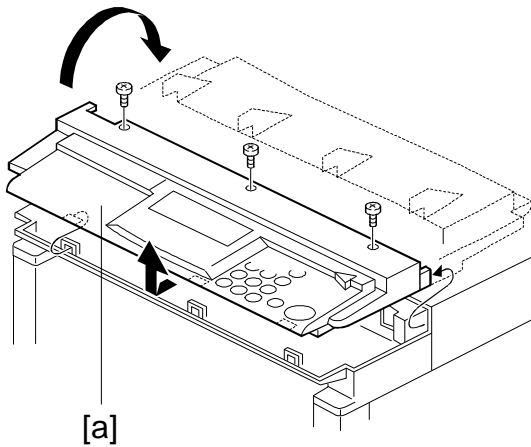
#### **⚠ CAUTION**

1. Before installing the fax unit, switch off the main and ac switches, and disconnect the power cord.
2. The fax unit contains a lithium battery. The danger of explosion exists if a battery of this type is incorrectly replaced. Replace only with same or an equivalent type recommended by the manufacturer. Discard used batteries in accordance with the manufacturer's instructions

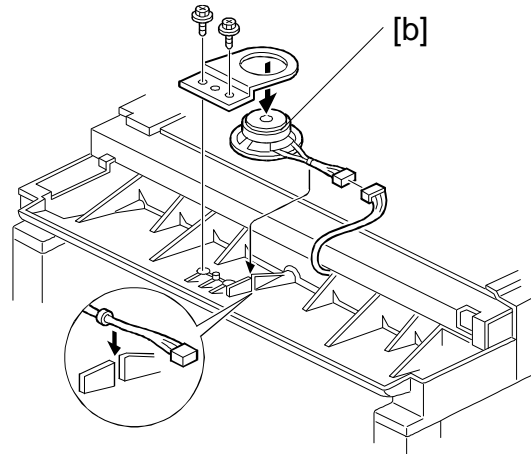


1. Remove the rear cover [A] (6 screws), replace the current NCU cover [B] with the new NCU cover [C], and attach the FCC/IC label (US only) or the BAPT label (UK only) [Z].
2. Remove screw [D] then remove the small cover [E].

**- For the A224 Copier only -**



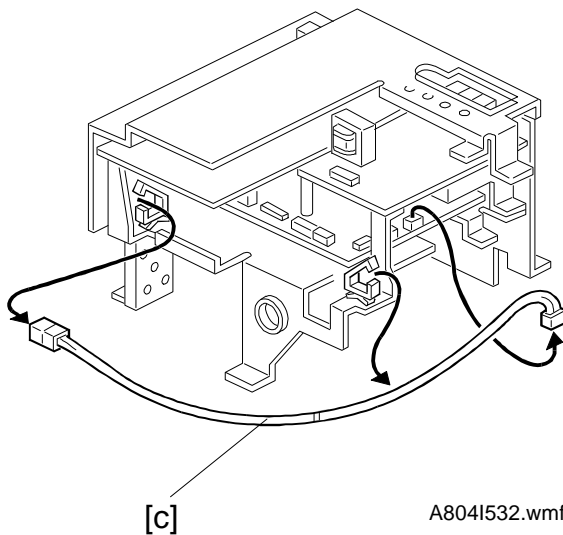
A8041530.wmf



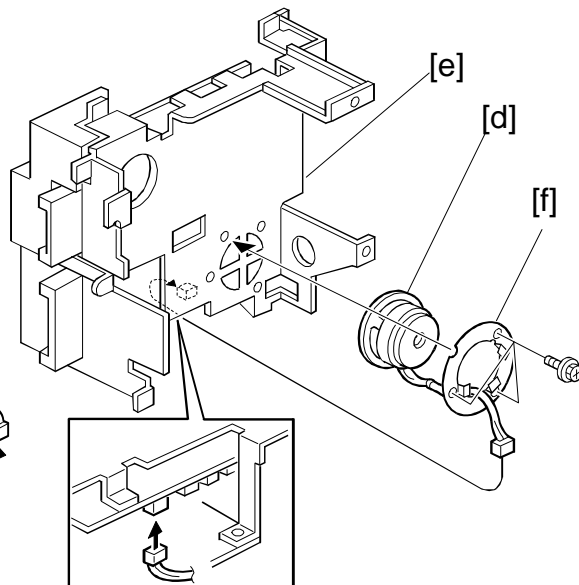
A8041531.wmf

- a. Remove the operation panel [a] as shown (3 screws; 1 harness).
- b. Install the speaker unit [b] as shown (1 bracket with 2 screws; 1 harness).
- c. Put back the operation panel [a] (3 screws; 1 harness).

**- For the A193 Copier only -**



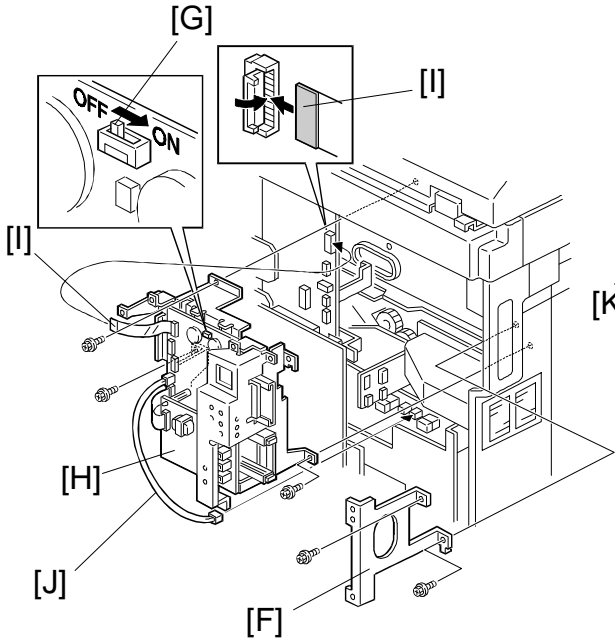
A8041532.wmf



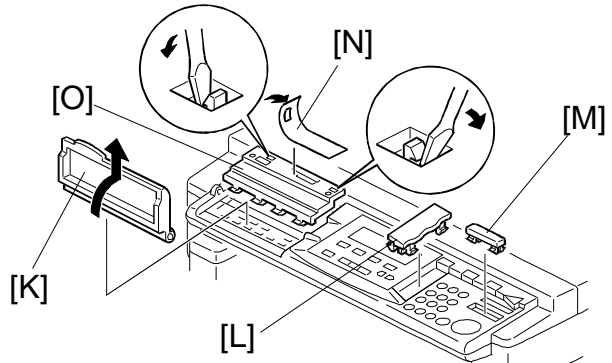
A8041533.wmf

- a. Remove the harness [c] from the fax unit as shown.
- b. Install the speaker unit [d] in the fax unit [e] as shown (1 ring shaped bracket [f] with 3 screws; 1 harness).

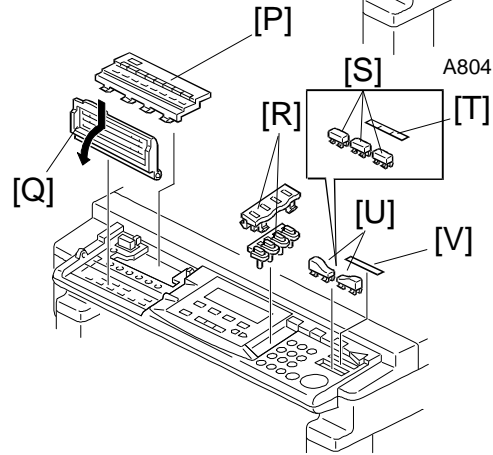




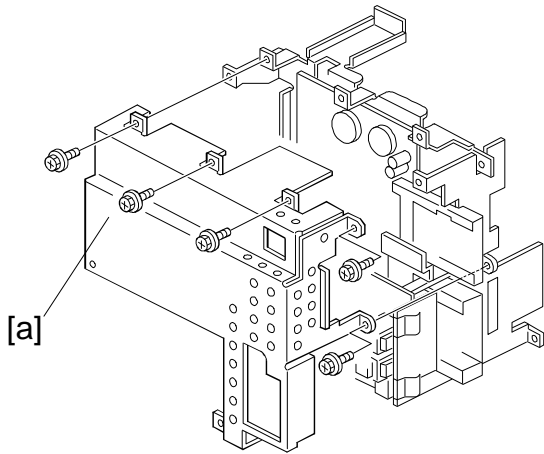
A8041501.wmf



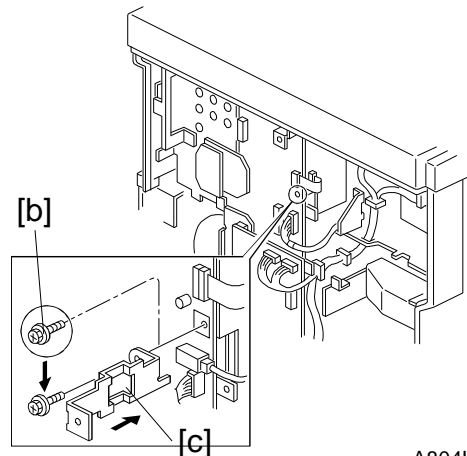
A8041502.wmf



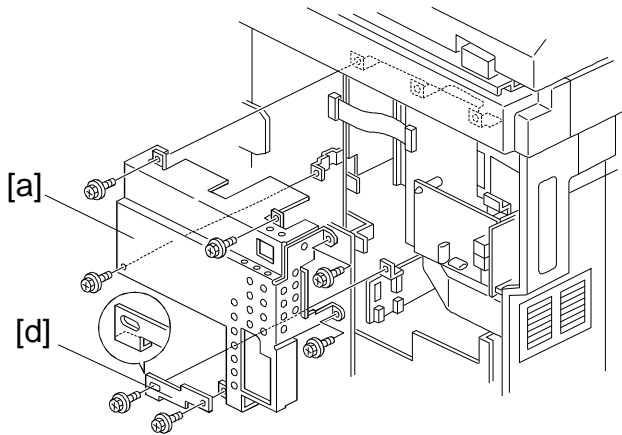
A8041503.wmf



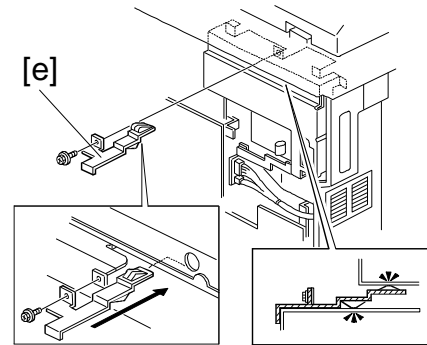
A8041527.wmf



A8041528.wmf



A8041525.wmf



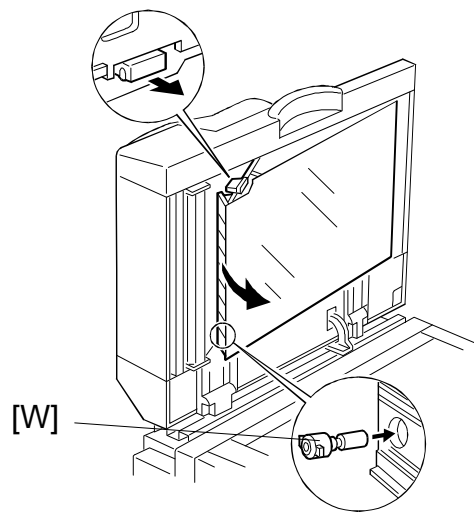
A8041534.wmf

**NOTE:** For European and Asian models only, perform steps a, b, and c.

- a. Remove bracket [a] from the fax unit.
- b. Remove screw [b] and install bracket [c] as shown.
3. Remove the inner bracket [F] (2 screws).
4. Turn on the battery switch [G]. Install the fax unit [H] (4 screws), as shown.
5. Connect the flat harness [I] to the BiCU (CN304), and connect the harness [J] to the PSU (CN288).
- c. Replace bracket [a] which was removed in step [a]; and install small brackets [d] and [e].

**NOTE:** Use a magnetic screwdriver so as not to drop any screws inside the machine.

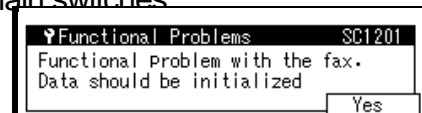
6. Replace the rear cover (5 screws).
7. Remove the parts [K], [L], and [M] from the operation panel.
8. Peel off the decal [N] as shown, then remove part [O].
9. Install each part, [P], [Q] and [R] on the operation panel, as shown.
10. If the machine has the printer controller option, install the keys [S] and the decal [T] as shown. The decal [T] has "Copy," "Printer," and "Facsimile" printed on it.  
If the machine does not have the printer controller option, install the keys [U] and the decal [V] as shown. The decal [V] has "Copy" and "Facsimile" printed on it.



A8041523.wmf

11. Install the Stamper [W] into the ADF as shown.
12. Open the bypass feeder and attach the enclosed serial number label on the metal frame.
13. Plug in the machine and turn on the ac and main switches.

14. Press the 'Facsimile' key and check that the facsimile LED lights. At this time, the following message should be shown:



A8041520.img

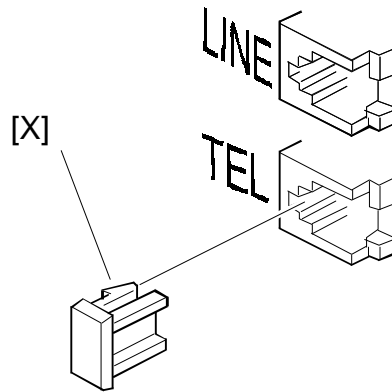
- NOTE:**
- 1) This is not a functional problem. The machine shows this message only when the fax unit is installed for the first time.
  - 2) If "SC681" is shown on the display instead of "SC1201", the old type of fax unit is installed in the A224 copier. Refer to section 5.1 for details.
15. Press "Yes" to initialize the fax unit.
  16. Connect the telephone cable to the "LINE" jack at the rear of the machine.
  17. Set up and program the items required for fax communications, as shown below. If the user function keys (F1, F2, F3 and F4) need to be programmed, affix the enclosed label above the function keys.

The default settings of the user function keys are as follows:

- F1 - Start Manual Rx
- F2 - TEL Mode
- F3 - Tx Result Display
- F4 - Not programmed

17. US only: If the optional handset needs to be installed, use the bracket and screws which are enclosed with the fax unit.

18. In European countries where the usage of the RJ11 type 'TEL' jack is prohibited by the local PTT, use the plug [X] in the 'TEL' jack as shown.



A804I524.wmf

- NOTE:**
- Be sure to set the clock (date and time).
  - Program the serial number into the fax unit (service function 10). The serial number can be found on the serial number label (which has been attached to the machine in step 12).

### 3.1 INITIAL PROGRAMMING

#### Key-operator Level

Clock	Key-operator mode 19
Transmit mode	Initial setup (Transmit)
Resolution	Initial setup (Transmit)
Photo original	Initial setup (Transmit)
Reception mode	Initial setup (Receive)
Auto image density	Initial setup (Receive)
ID code	Key-operator mode 01
ECM	Key-operator mode 02
Volume	Key-operator mode 09
TTI / RTI	Key-operator mode 11
Economy transmission	Key-operator mode 12
G3 setting (Analog line) (Line type/CSI/Own number)	Key-operator mode 14
User parameters	Key-operator mode 17

**Service Level**

NCU country code (NCU parameter C.C.)	Function 06 - 2
Bit switch country code (System switch 0F)	Function 01 - 1
Local dialing requirements (Communication switch 06)	Function 01 - 4
Local protocol requirements (G3 switch 0B)	Function 01 - 5
PBX access code (RAM address 4800BB)	Function 06 - 1
Machine's serial number	Function 10
Service station's fax number	Function 09
PM call (System switch 01- bit 0)	Function 01 - 1
Periodic service call (RAM address 480379 - 48037D)	Function 06 - 1

## 4. SERVICE TABLES AND PROCEDURE

### 4.1 BIT SWITCHES

This section describes only the updated switches. The updated switches are marked with an asterisk.

#### 4.1.1 System Switch

<b>System Switch 1F</b> (Bit 2 has been defined.)		
<b>No</b>	<b>FUNCTION</b>	<b>COMMENTS</b>
<b>0</b> <b>1</b>	Not used	Do not change the settings.
<b>2*</b>	Printing a report after a jam or memory overflow occurred during memory tx <b>0:</b> Enabled <b>1:</b> Disabled	<b>0:</b> The machine prints a Memory Storage Report (Memory Tx) or a Transmission Result Report, if a jam or memory overflow occurred while storing a document into memory. <b>1:</b> The machine does not print a report in the above conditions.
<b>3</b>	Received fax print start timing (G3 reception) <b>0:</b> After receiving each page <b>1:</b> After receiving all pages	<b>0:</b> The machine prints each page immediately after the machine receives it. <b>1:</b> The machine prints the complete message after the machine receives all the pages in the memory.
<b>4</b>	Received fax print start timing (G4 reception) <b>0:</b> After receiving each page <b>1:</b> After receiving all pages	
<b>5</b> <b>6</b>	Not used	Do not change the factory settings.
<b>7</b>	Action when a fax SC has occurred <b>0:</b> Automatic reset <b>1:</b> SC code display	<b>0:</b> When the fax unit detects a fax SC code other than SC1201 and SC1701, the fax unit automatically resets itself. <b>1:</b> When the fax unit detects any fax SC code, the fax unit displays the SC code and stops.  Cross Reference Fax SC codes - See "Troubleshooting"

### 4.1.2 Printer Switch

Printer Switch 0E (Bit 3 has been defined additionally)		
No	FUNCTION	COMMENTS
0	Paper size selection priority 0: Width 1: Length	0: A paper size which has the same width as the received data is selected first. 1: A paper size which has enough length to print all the received lines without reduction is selected first.
1	Paper size selected for printing A4 width fax data 0: 8 x 11" size 1: A4 size	This switch determines which paper size is selected for printing A4 width fax data, when the machine has A4 and 8" x 11" size paper at the same time.
2	Page separation 0: Enabled 1: Disabled	1: If all paper sizes in the machine require page separation to print a received fax message, the machine does not print the message (Substitute Reception is used). After a larger size of paper is set in a cassette, the machine automatically prints the fax message.
3*	Type of image printed on reports 0: Upper half 1: 50% reduction	0: The upper half of the image is printed on the reports unreduced. 1: The image is printed reduced by 50% in the sub-scan direction. <b>Note:</b> Even if "50% reduction" is selected, the transfer result report will have the upper half of the image unreduced.
4 to 6	Not used	Do not change the settings.
7	Equalizing the reduction rate among separated pages (Page Separation) 0: Enabled 1: Disabled	0: All the pages are reduced with the same reduction ratio, when page separation has taken place. 1: Only the last page is reduced to fit the selected paper size when the page separation has taken place. Other pages are printed without reduction.

## 4.2 RAM ADDRESSES

### 4800AA(H) - User parameter switch 10 (SWUSR\_0A)

Bit 0: Not used

Bit 1: 2 into 1                      0: Off, 1: On

Bit 2\*: Paper selection priority for A4 documents      0: A3, 1: B4

Bit 3: Page reduction              0: Off, 1: On

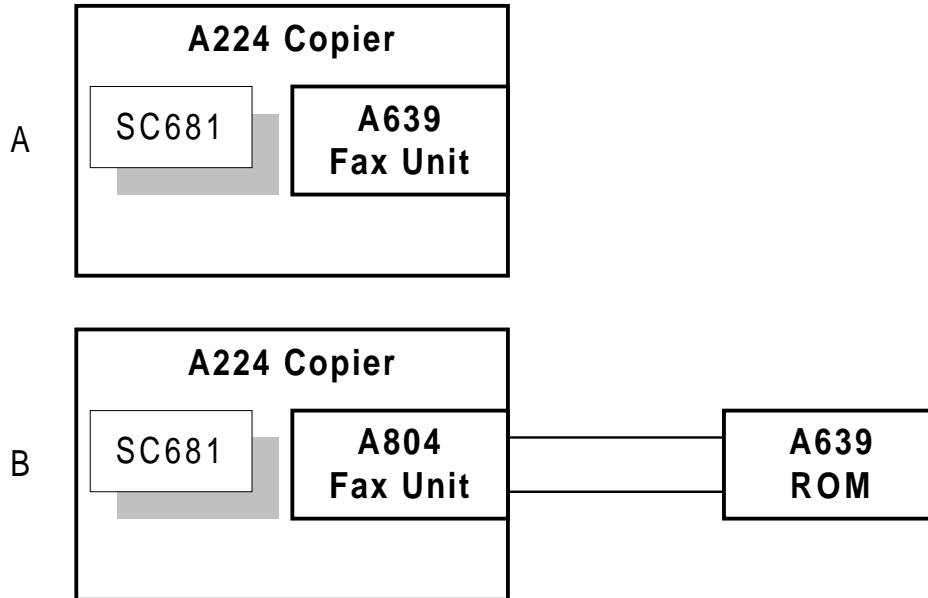
Bits 4 to 7: Not used

---

## 5. TROUBLESHOOTING

### 5.1 SC681 (A224 Copier only)

The copier shows "SC681" on the display in either of the following cases.



A804T501.wmf

A. The A639 Fax Unit is installed in an A224 copier.

B. The A804 Fax Unit installed in the A224 copier is booted up from the external A639 ROMs.

In these cases, the A224 copier shows SC681 when A639 Fax software is detected at power-on. To fix this problem, turn off the machine and replace the A) Fax Unit or B) ROMs with correct one(s).



## 5.2 OTHER POSSIBLE CASES

### 5.2.1 Possible Cases and Results

Fax Unit	Installed Software	Base Copier	
		A193	A224
A639	A639	No problem	SC681 See section 5.1.
	A804	Fax Unit not detected. See section 5.2.2.	Fax Unit not detected. See section 5.2.2.
A804	A639	See section 5.2.3	SC681 See section 5.1.
	A804	No problem	No problem

### 5.2.2 When A804 Software is Downloaded to the A639 Fax Unit

Because the A804 software is not designed to work in the A639 Fax Unit, if it is downloaded to the A639 Fax Unit by mistake, the Fax Unit does not start up at power-on. So, the base copier machine cannot recognise the presence of the fax unit in this case. No fax functions are available.

To fix this problem, download the correct A639 software to the fax unit using the ROM board. All the programmed data remain the same as before after software download, because no RAM initialization is made when the wrong software is downloaded.

### 5.2.3 When A639 Software is Downloaded to the A804 Fax Unit

The A639 software works in the A804 Fax Unit if the Fax Unit is installed in the A193 copier. However, the standard SAF memory capacity is limited to 1MB because of software limitations.

This does not look like a problem, but is not recommended. So, if A639 software was downloaded to an A804 Fax Unit by mistake, download the correct A804 software to the fax unit using the ROM board.