

# Portable Manual

MF6500 Series



**Canon**



## Application

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## Caution

Use of this manual should be strictly supervised to avoid disclosure of confidential information.

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## Symbols Used

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This documentation uses the following symbols to indicate special information:

| Symbol  | Description   |
|---|---|
|          | Indicates an item of a non-specific nature, possibly classified as Note, Caution, or Warning.     |
|          | Indicates an item requiring care to avoid electric shocks.  |
|          | Indicates an item requiring care to avoid combustion (fire).                                      |
|          | Indicates an item prohibiting disassembly to avoid electric shocks or problems.                   |
|          | Indicates an item requiring disconnection of the power plug from the electric outlet.             |
| <br>Memo | Indicates an item intended to provide notes assisting the understanding of the topic in question. |
| <br>REF. | Indicates an item of reference assisting the understanding of the topic in question.              |
|         | Provides a description of a service mode.   |
|        | Provides a description of the nature of an error indication.                                      |

The following rules apply throughout this Service Manual:

1. Each chapter contains sections explaining the purpose of specific functions and the relationship between electrical and mechanical systems with reference to the timing of operation.

In the diagrams,  represents the path of mechanical drive; where a signal name accompanies the symbol, the arrow  indicates the direction of the electric signal.

The expression "turn on the power" means flipping on the power switch, closing the front door, and closing the delivery unit door, which results in supplying the machine with power.

2. In the digital circuits, '1' is used to indicate that the voltage level of a given signal is "High", while '0' is used to indicate "Low". (The voltage value, however, differs from circuit to circuit.) In addition, the asterisk (\*) as in "DRMD\*" indicates that the DRMD signal goes on when '0'.

In practically all cases, the internal mechanisms of a microprocessor cannot be checked in the field. Therefore, the operations of the microprocessors used in the machines are not discussed: they are explained in terms of from sensors to the input of the DC controller PCB and from the output of the DC controller PCB to the loads.

The descriptions in this Service Manual are subject to change without notice for product improvement or other purposes, and major changes will be communicated in the form of Service Information bulletins.

All service persons are expected to have a good understanding of the contents of this Service Manual and all relevant Service Information bulletins and be able to identify and isolate faults in the machine."





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# Chapter 1 Maintenance and Inspection

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## 1.1 Periodically Replaced Parts

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### 1.1.1 Periodically Replaced Parts

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

The machine does not have parts that require periodical replacement.

## 1.2 Durables and Consumables

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### 1.2.1 Durables

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

The machine does not have durables.

## 1.3 Scheduled Servicing Basic Procedure

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### 1.3.1 Periodical Service Items

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

The machine does not have periodical service items.



# Chapter 2 Standards and Adjustments

## 2.1 Scanning System

### 2.1.1 Procedure after Replacing the CS

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / Kaser-Base MF6560PL / / LaserBase MF6580PL

After replacing the contact sensor (CS), go through the following steps to perform inter-channel output correction:

- 1) Enter the service mode.
- 2) Sequentially press the Additional functions key, 2 key, 8 key, and Additional functions key on the operation panel.
- 3) Press the arrow key on the touch panel to display "TEST MODE".
- 4) Press [OK].
- 5) Press the [2] key to display "SCAN TEST".
- 6) Press the [1] key to display "SHADING".
- 7) Press [OK].

After completion of the above procedure, the contact sensor output is compensated and parameters are set automatically.

After completion of automatic adjustment, "OK" is displayed.

## 2.2 Fixing System

### 2.2.1 Procedure after Replacing the CS

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / Kaser-Base MF6560PL / / LaserBase MF6580PL

## 2.3 Electrical Adjustment

### 2.3.1 Procedure after Replacing the Image Processor PCB

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / Kaser-Base MF6560PL / / LaserBase MF6580PL

If you have replaced the image processor PCB with a new one, perform the following operations:

- Using the service support tool, download the latest firmware (System/Boot/PCL\*1) and language files.

\*1: if equipped with PCL functions.

- Input the all value printed on the service label affixed to the rear cover.

Make the following adjustments:

- Correction of output between CIS channels

- 1) Enter the service mode.
- 2) Sequentially press the Additional functions key, 2 key, 8 key, and Additional functions key on the operation panel.
- 3) Press the arrow key on the touch panel to display "TEST MODE".
- 4) Press [OK].
- 5) Press the [2] key to display "SCAN TEST".
- 6) Press the [1] key to display "SHADING".
- 7) Press [OK].

After completion of the above procedure, the contact sensor output is compensated and parameters are set automatically.

After completion of automatic adjustment, "OK" is displayed.

- Read position adjustment (Stream reading: Only when the ADF is installed)

- 1) Enter the service mode.
- 2) Sequentially press the Additional functions key, 2 key, 8 key, and Additional functions key on the operation panel.
- 3) Press the arrow key on the touch panel to display "TEST MODE".
- 4) Press [OK].
- 5) Press the [2] key to display "SCAN TEST".
- 6) Press the [3] key to display "SHEET POS ADJ".
- 7) Press [OK].

The optical system starts scanning. Several seconds later, automatic adjustment of the reading position finishes and "OK" appears.



If automatic adjustment fails, "NG" appears. Perform the following procedure:

Clean the platen guide of the DADF and the document glass of the host machine, and then retry auto adjustment.

### 2.3.2 Actions to Take before All Clearing (Backing up the User Data)

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / Kaser-

Base MF6560PL / / LaserBase MF6580PL



- Performing the all-clear operation in the service mode (#CLEAR > ALL) erases/initializes the user data such as address data and user mode settings.

Be sure to back up the user data with the data export function before starting the all-clear operation, and then load the user data with the data import function.

- To export and import user data, a PC and a USB cable are required. Have them on hand.

#### a. Exporting user data

1) Output a user data list in the following user mode.

> Report Setting > Print List > User Data List

2) Press the following keys to enter the service mode.

> 2 key > 8 key >

3) Select "#SYSTEM" using or , and then press the OK.

4) Select "#SYSTEM SW" using or , and then press the OK.

5) Press the following keys to display "SW003."

# > 0 key > 3 key

Message: #SYSTEM SW003 00001000

6) Position the cursor at Bit-6 (second from left) using or , and then press the 1 key.

Message: #SYSTEM SW003 01001000

7) Press the OK key. Check that "SW003" changes to "SW004".

Message: #SYSTEM SW004 00000000

8) Press the Reset key to exit the service mode.

9) Turn off the main power switch, and then turn it on again.

10) Start the PC and connect it to this machine with a USB cable.

11) Open My Computer on the PC to check that the "Removable Disk" icon is displayed. If the "Removable Disk" icon is not displayed, repeat the above procedure starting with step 1.

12) Double-click the "Removable Disk" icon, and then copy the user data (address\_book.abk and user\_data.dat) onto the Desktop.

13) Close the window on the Desktop.

14) Turn off the main power switch of this machine.

15) Disconnect the USB cable from this machine.

#### b. Importing user data

1) Press the following keys to enter the service mode.

> 2 key > 8 key >

2) Select "#SYSTEM" using or , and then press the OK.

4) Select "#SYSTEM SW" using or , and then press the OK.

5) Press the following keys to display "SW003".

# > 0 key > 3 key

Message: #SYSTEM SW003 00001000

5) Check that Bit-6 (second from left) is set to set to "1". If Bit-6 is not set to "1", position the cursor at this bit using or and then press the 1 key.

Message: #SYSTEM SW003 01001000

6) Press the OK key. Check that "SW003" changes to "SW004".

Message: #SYSTEM SW004 00000000

7) Press the Reset key to exit the service mode.

8) Turn off the main power switch, and then turn it on again.

9) Open My Computer on the PC to check that the "Removal Disk" icon is displayed.

11) Write the user data (address\_book.abk and user\_data.dat) copied onto the Desktop as described in "a. Exporting user data" over the removable disk.

12) Disconnect the USB cable from the machine.

13) Turn off the main power switch of the machine.

14) Perform steps 1) to 4) again to reset Bit-6 of "SW003" to "0".

15) Press the OK key. When "SW003" changes to "SW004", press the Reset key to exit the service mode.

16) Check the user data list output as described in "a. Exporting user data" to make sure that the user data has been loaded into the machine properly.



## 2.4 ADF

This machine has the following adjustment items. Make the necessary adjustments after replacing each part.

T-2-1

### 2.4.1 Outline

#### 2.4.1.1 Outline

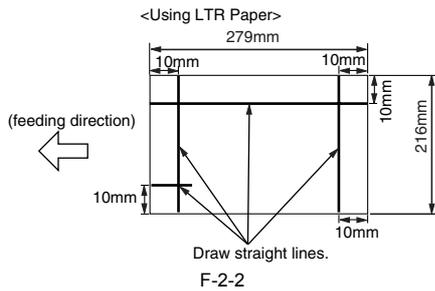
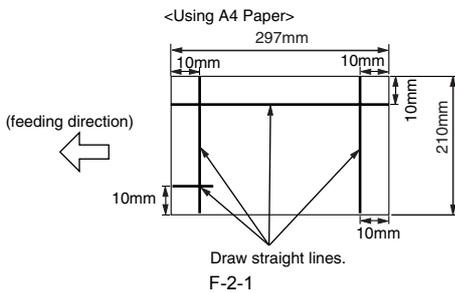
LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / Kaser-

| No. | Adjustment type                      | Replaced parts |
|-----|--------------------------------------|----------------|
| [1] | Perpendicularity adjustment          | Hinge          |
| [2] | Magnification adjustment             | Motor/roller   |
| [3] | Side registration adjustment         | -              |
| [4] | Leading edge registration adjustment | -              |

#### 2.4.1.2 Preparing a Test Sheet for Adjustment

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / Kaser-Base MF6560PL / / LaserBase MF6580PL

Preparing a Test Sheet: On a sheet of A4 or LTR paper, draw straight lines as indicated:



### 2.4.2 Adjusting the Mechanical System

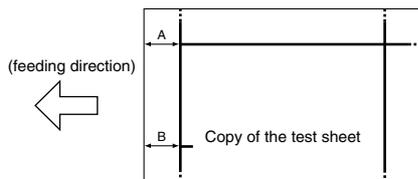
#### 2.4.2.1 Adjusting the Perpendicularity

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / Kaser-Base MF6560PL / / LaserBase MF6580PL

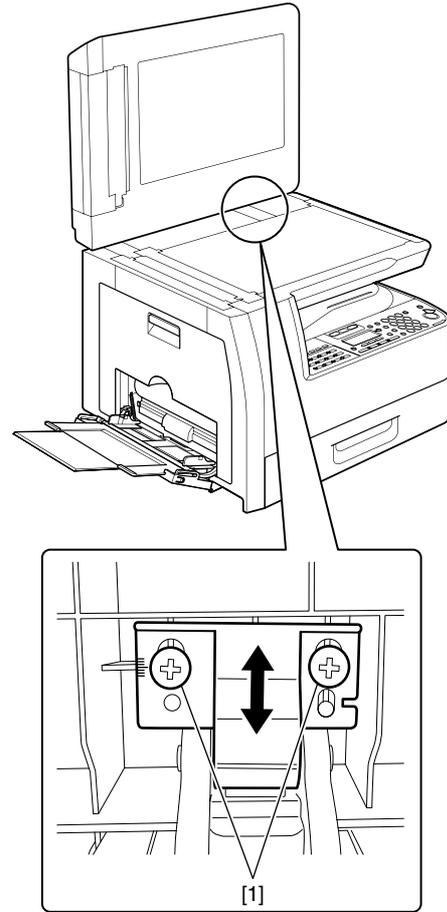
- 1) Create a test chart, load it in the DADF, and make a copy of it.
- 2) Compare the lines at the end of the test chart with those on the copy for perpendicularity. Measure dimensions A and B at the end of the copy and adjust the amount of skew (the range shown in the table) to within the spec.

T-2-2

|     | Dimension (using A4) | Dimension (using LTR) |
|-----|----------------------|-----------------------|
| A-B | 0 +/- 1.5 mm         | 0 +/- 1.5 mm          |



- 3) Loosen the two screws [1] securing the right hinge and slide the hinge according to the scale markings so that the perpendicularity is within spec.



F-2-4

- 4) Tighten the screws you loosened in step 3.

### 2.4.3 Adjusting the Mechanical System

#### 2.4.3.1 Adjusting the Magnification

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / Kaser-Base MF6560PL / / LaserBase MF6580PL

- 1) Create a test chart, load it in the DADF, and make a copy of it. This copy is called copy A.
- 2) Compare the longitudinal image length on the test chart with that on copy A. If required, make an adjustment in the service mode. (A4-size paper: 277 +/-1mm LTR paper: 297 +/-1mm) Image on copy A is shorter. -> Increase the value (or reduce the stream reading speed). Image on copy A is longer. -> Decrease the value (or increase the stream reading speed).
- 3) Enter the service mode. Sequentially press the User Mode key, 2 key, 8 key, and User Mode key on the operation panel of the host machine.
- 4) Using the arrow keys on the operation panel, display "#SCAN".
- 5) Press the OK key.
- 6) Using the arrow keys on the operation panel, display "#SCAN NUMERIC".
- 7) Press the OK key.
- 8) Using the arrow keys, select "48".

- 9) Using the numeric keys, change the value to determine the optimum value.  
Next, press the OK key. (Default: 32)

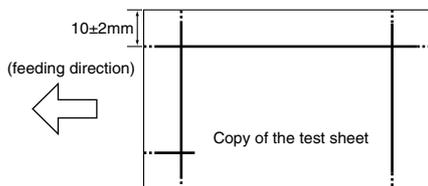


Do not change the adjustment value excessively.

### 2.4.3.2 Adjusting the Horizontal Registration

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / Kaser-Base MF6560PL / / LaserBase MF6580PL

- 1) Load the test chart in the DADF and make a copy of it.
- 2) Compare the horizontal registration of the chart with that of the copy. If required, make an adjustment.  
The specified horizontal registration is 10mm +/-2mm.

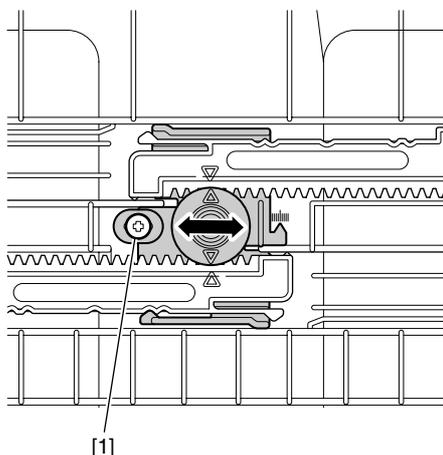


F-2-5

- 1) Load the test chart in the DADF and make a copy of it.
- 2) Compare the horizontal registration of the chart with that of the copy. If required, make an adjustment.  
The specified horizontal registration is 10mm +/-2mm.
- 3) Enter the service mode.  
Sequentially press the User Mode key, 2 key, 8 key, and User Mode key on the operation panel of the host machine.
- 4) Using the arrow keys on the operation panel, display "#SCAN".
- 5) Press the OK key.
- 6) Using the arrow keys on the operation panel, display "#SCAN NUMERIC".
- 7) Press the OK key.
- 8) Using the arrow keys, select "41".
- 9) Using the numeric keys, change the value to determine the optimum value.  
Next, press the OK key. (Default: 0)

If the registration cannot be set to the specified value using software, use the following procedure:

- 1) Open the ADF pickup tray.
- 2) Loosen the two screws [1] and move the slide guide forward or backward according to the scale calibrated in mm so that the registration is within spec.



F-2-6

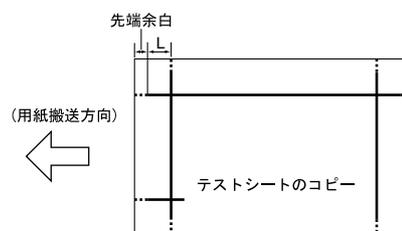
#### MEMO:

Making copies with the slide guide shifted 1 mm upward will increase the right registration (on the upper side of paper) by 1 mm.

### 2.4.3.3 Leading edge registration adjustment

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / Kaser-Base MF6560PL / / LaserBase MF6580PL

- 1) Load the test chart in the DADF and make a copy of it.
- 2) Compare the end registration of the test chart with that on the copy. If required, make an adjustment.  
The specified end registration is 10mm +/-2mm.



F-2-7

The image is shifted to the left. -> Decrease the value.  
The image is shifted to the right. -> Increase the value.  
Unit of adjustment 1 = 0.1 mm

- 3) Enter the service mode.  
Sequentially press the User Mode key, 2 key, 8 key, and User Mode key on the operation panel of the host machine.
- 4) Using the arrow keys on the operation panel, display "#SCAN".
- 5) Press the OK key.
- 6) Using the arrow keys on the operation panel, display "#SCAN NUMERIC".
- 7) Press the OK key.
- 8) Using the arrow keys, select "42".
- 9) Using the numeric keys, change the value to determine the optimum value.  
Next, press the OK key. (Default: 219)



If the registration cannot be set to the specified value using software, make adjustments again starting with the perpendicular adjustment.



# Chapter 3 Error Code

## 3.1 Jam Code

### 3.1.1 Jam Codes (Main body)

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

T-3-1

| Code | Name                                   | Sensor No.          | Description  |
|------|--|---------------------|--|
| 0104 | Delay jam in paper pickup section      | SR11                | The registration sensor cannot detect the leading edge of paper from the moment paper pickup starts to the moment the jam detection time is reached.   |
| 0208 | Stationary jam in paper pickup section | SR11                | The registration sensor cannot detect the no paper status specified time before the leading edge of the picked up paper reaches this sensor.   |
| 010c | Delay jam in deliver section           | SR5                 | - The delivery sensor cannot detect presence of paper within the specified time after turning on of the registration clutch.<br>- The delivery sensor detected absence of paper within the specified time after the sensor had detected presence of paper within the specified time after turning on of the registration clutch. |
| 0210 | Stationary jam in delivery section     | SR5                 | - The delivery sensor cannot detect absence of paper within the specified time after turning off of the registration clutch.<br>- The delivery sensor cannot detect absence of paper within the specified time after the sensor detected the leading edge of paper.  |
| 0214 | Stationary jam in machine              | SR5, SR9            | Paper was detected in the paper transport path during initial rotation, during automatic delivery, at the end of cleaning, or at reception of an emergency stop command.   |
| 1118 | Door open jam                          | SW2, SR5, SR9, SR11 | The door was opened when there was printing paper in the transport path.   |

### 3.1.2 Jam Codes (ADF)

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

T-3-2

| Code | Name                                   | Sensor No.             | Description   |
|------|--|------------------------|---|
| 0000 | Unknown jam                            | -                      | Other errors  |
| 0007 | Initial stationary                     | SR2002, SR2003, SR2004 | Paper is detected in the transport path before the DADF starts initial operation.   |
| 0008 | Document edge sensor delay             | SR2002                 | The document edge sensor does not detect paper when the paper has been fed by the predetermined distance since reception of a pickup request.           |
| 0009 | Document edge sensor stationary        | SR2002                 | The trailing edge of paper is not detected when the paper has been fed by the predetermined distance since detection of it by the document edge sensor. |
| 000a | Paper absence (Pull out the document.) | SR2001                 | The Document set sensor has been held off since start of pickup.  |
| 0010 | Pickup NG                              | SR2003                 | The registration sensor has been held off since paper pickup started.   |



# Chapter 4 User Mode Items

## 4.1 User Mode Items

### 4.1.1 COMMON SETTINGS

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

#### MEMO:

User modes of the USA model (Copy + Print + Scan + Fax + ADF + Network + PCL) are described. Menus and defaults may vary depending on the destination. For details, refer to the User's Guide.

| Additional Functions  | Available Settings  |
|-----------------------|---|
| 1. DEFAULT SETTINGS   | COPY, FAX(*), SCAN  |
| 2. AUTO CLEAR SET.    | INITIAL FUNCTION(*), SELECTED FUNCTION  |
| 3. AUDIBLE TONES      | ENTRY TONE: ON (volume 1(*) to 3), OFF<br>ERROR TONE: ON (volume 1(*) to 3), OFF<br>TX JOB DONE TONE: ERROR ONLY (volume 1(*) to 3), OFF, ON (volume 1(*) to 3)<br>RX JOB DONE TONE: ERROR ONLY (volume 1(*) to 3), OFF, ON (volume 1(*) to 3)<br>SCAN DONE TONE: ERROR ONLY (volume 1(*) to 3), OFF, ON (volume 1(*) to 3)<br>PRINT DONE TONE: ERROR ONLY (volume 1(*) to 3), OFF, ON (volume 1(*) to 3) |
| 4. TONER SAVER MODE   | OFF(*), ON  |
| 5. PRINTER DENSITY    | 1 to 9 (5(*))   |
| 6. AUTO DRAWER SELECT | COPY: CASSETTE 1 (ON(*), OFF), CASSETTE 2 (ON(*), OFF), MP TRAY (OFF(*), ON)<br>PRINTER: CASSETTE 1 (ON(*), OFF), CASSETTE 2 (ON(*), OFF)<br>FAX: CASSETTE 1 (ON(*), OFF), CASSETTE 2 (ON(*), OFF), MP TRAY (OFF(*), ON)<br>OTHER: CASSETTE 1 (ON(*), OFF), CASSETTE 2 (ON(*), OFF), MP TRAY (OFF(*), ON)   |
| 7. SELECT PAPER TYPE  | CASSETTE 1, CASSETTE 2  |
| 8. REG. PAPER TYPE    | CASSETTE 1: PLAIN PAPER(*), COLOR, RECYCLED, HEAVY PAPER 1, BOND, HOLE PUNCH PAPER<br>CASSETTE 2: PLAIN PAPER(*), COLOR, RECYCLED, HEAVY PAPER 1, BOND, HOLE PUNCH PAPER  |
| 9. ENERGY IN SLEEP    | LOW(*), HIGH  |
| 10. MP TRAY STD SET   | OFF(*), ON: PAPER SIZE (LTR, SMTR, EXECUTIV, OFICIO, BRAZIL-OFICIO, MEXICO-OFICIO, FOLIO, G-LTR, FLSP, COM10, MONARCH, DL, ISO-C5, ISO-B5, FREESIZE, A4, B5, A5R, LGL), SELECT PAPER TYPE (PLAIN PAPER, COLOR, RECYCLED, HEAVY PAPER 1, HEAVY PAPER 2, HEAVY PAPER 3, BOND, HOLE PUNCH PAPER, TRANSPARENCY, LABELS, ENVELOPE)   |
| 11. PAPER FEED SWITCH | MP TRAY (SPEED PRIORITY(*), PRINT SIDE), CASSETTE 1 (SPEED PRIORITY(*), PRINT SIDE), CASSETTE 2 (SPEED PRIORITY(*), PRINT SIDE)   |
| 12. DISPLAY LANGUAGE  | ENGLISH(*), FRENCH, SPANISH, PORTUGUESE   |
| 13. ADF DIRTY ERROR   | DISPLAY(*), DO NOT DISPLAY  |
| 14. INIT. COMMON SET. | OFF(*), ON  |

\*: indicates factory settings.

### 4.1.2 COPY SETTINGS

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

| Additional Functions  | Available Settings |
|-----------------------|--------------------|
| 1. IMAGE DIR PRIORITY | OFF(*), ON         |

| Additional Functions | Available Settings  |
|----------------------|---|
| 2. STANDARD SETTINGS | IMAGE QUALITY: TEXT/PHOTO(*), TEXT, PHOTO<br>DENSITY: AUTO(*), MANUAL (-LT - DK+: 9 steps, 5)<br>ZOOM RATIO: PRESET RATIO (DIRECT 100%(*), 115% B5->A4, 121% LGL->11x17, 122% A5->B5, 129% STMT->LTR, 141% A5->A4, 200% MAX., 50% MIN., 64%, 70% A4->A5, 73% 11X17->LGL, 78% LGL->LTR, 81% B5->A5, 86% A4->B5), MANUAL<br>COPIES: 1(*) to 99<br>AUTO COLLATE: OFF(*), COLLATE<br>TWO-SIDED: OFF(*), 1 > 2-SIDED, 2 > 2-SIDED, 2 > 1-SIDED<br>FRAME ERASE: OFF(*), ORG. FRAME ERASE, BOOK FRAME ERASE, BINDING HOLE<br>PAPER SELECT: AUTO(*), CASSETTE 1, CASSETTE 2 |
| 3. SHARPNESS         | 1 to 9 (5(*))   |
| 4. PAPER SIZE GROUP  | A, AB, INCHES(*)  |
| 5. MM/INCH ENTRY     | mm, INCHES(*)   |
| 6. INIT. COPY SET.   | OFF(*), ON  |

\*: indicates factory settings.

### 4.1.3 FAX SETTINGS

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

| Additional Functions | Available Settings   |
|----------------------|--|
| 1. RX MODE           | FAXONLY, FAXTEL, ANSMODE, DRPD, MANUAL   |
| 2. USER SETTINGS     | UNIT TELEPHONE #<br>UNIT NAME<br>TX TERMINAL ID: PRINTING POSITION: OUTSIDE IMAGE(*), INSIDE IMAGE, TELEPHONE # MARK: FAX(*), TEL<br>SCANNING DENSITY: -LT - DK+ 9 steps (5(*))<br>TEL LINE TYPE: TOUCH TONE(*), ROTARY PULSE<br>VOLUME CONTROL: MONITOR VOL. CTRL (0 - 3 (1(*))), CALLING VOLUME (0 - 3 (1(*)))<br>OFFHOOK ALARM: ON, OFF(*)<br>STANDARD SETTINGS: DENSITY (STANDARD(*), DK, LT), IMAGE QUALITY (STANDARD(*), FINE, PHOTO, SUPER FINE, ULTRA FINE), DIRECT TX (OFF(*), ON)<br>INIT. FAX STD SET: OFF(*), ON |
| 3. TX SETTINGS       | ECM TX: ON(*), OFF<br>PAUSE TIME: 1 to 15 (4(*) SEC.<br>AUTO REDIAL: ON (REDIAL TIMES, REDIAL INTERVAL, TX ERROR REDIAL)(*), OFF<br>TIME OUT: ON(*), OFF<br>DIALING LINE CHCK: ON(*), OFF  |
| 4. RX SETTINGS       | ECM RX: ON(*), OFF<br>FAX/TEL OPT. SET: RING START TIME (0-30 (6*)), F/T RING TIME: (15-300 (15*)), F/T SWITCH ACTION: RECEIVE(*), DISCONNECT<br>DRPD:SELECT FAX: DOUBLE RING(*), SHORT-SHORT-LONG, OTHER RING TYPR, NORMAL RING<br>INCOMING RING: OFF(*), ON (RING COUNT (1-99TIMES)<br>REMOTE RX: ON (REMOTE RX ID (0-9,#)), OFF(*)<br>MANUAL/AUTO: OFF(*), ON (F/T RING TIME (1-99SEC)  |
| 5. PRINTER SETTINGS  | SELECT CASSETTE: SWITCH A (ON(*), OFF), SWITCH B (ON(*), OFF), SWITCH C (ON(*), OFF), SWITCH D (ON(*), OFF)<br>RECEIVE REDUCTION: ON (RECEIVE REDUCTION, REDUCE DIRECTION)(*), OFF<br>TWO-SIDED PRINT: OFF(*), ON<br>CONT. PRINTING: RX TO MEMORY(*), KEEP PRINTING  |

\*: indicates factory settings.

### 4.1.4 ADDRESS BOOK SET.

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

| Additional Functions | Available Settings   |
|----------------------|--|
| 1. 1-TOUCH SPD DIAL  | Up to 23 destinations can be registered: TEL NUMBER ENTRY, NAME, OPTIONAL SETTING  |
| 2. CODED SPD DIAL    | Up to 100 destinations can be registered: TEL NUMBER ENTRY, NAME, OPTIONAL SETTING |
| 3. GROUP DIAL        | Up to 122 destinations can be registered: TEL NUMBER ENTRY, NAME                   |

\*: indicates factory settings.

## 4.1.5 PRINTER SETTINGS

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

| Additional Functions | Available Settings  |
|----------------------|---|
| 1. DEFAULT PAPERSIZE | LTR(*), STMT, EXECUTIV, ISO-B5, COM10, MONARCH, DL, A4, B5, A5, LGL   |
| 2. DEFAULT PAPERTYPE | PLAIN PAPER(*), COLOR, RECYCLED, HEAVY PAPER 1, HEAVY PAPER 2, HEAVY PAPER 3, 3 HOLE PUNCH PAPER, BOND, TRANSPARENCY, LABELS, ENVELOPE  |
| 3. COPIES            | 1(*) to 999   |
| 4. 2-SIDED PRINTING  | OFF(*), ON  |
| 5. PRINT QUALITY     | IMAGE REFINEMENT: ON(*), OFF<br>DENSITY: 1 to 9 (5*)<br>TONER SAVER: OFF(*), ON   |
| 6. PAGE LAYOUT       | BINDING: LONG EDGE(*), SHORT EDGE<br>MARGIN: mm (-50.0 mm to +50.0 mm; 0.0 mm(*)), INCHES (-01.90 INCHES to 01.90 INCHES; 00.00 INCHES(*))  |
| 7. ERROR TIME OUT    | ON (5*) to 300 SEC), OFF  |
| 8. COLLATE           | OFF(*), COLLATE   |
| 9. INIT. PRINTER SET | OFF(*), ON  |
| 10. PCL SETTINGS**   | ORIENTATION: PORTRAIT(*), LANDSCAPE<br>FONT NUMBER: 0(*) to 120<br>POINT SIZE: 4.00 to 999.75 point (12.00 point(*))<br>PITCH: 0.44 to 99.99 cpi (10.00 cpi(*))<br>FORM LINES: 5 to 128 lines (64 lines(*))<br>SYMBOL SET: PC8(*), PC850, PC852, PC8DN, PC8TK, PC1004, PIFONT, PSMATH, PSTEXT, ROMAN8, VNINTL, VNMATH, VNUS, WIN30, WINBALT, WINL1, WINL2, WINL5, DESKTOP, ISO4, ISO6, ISO11, ISO15, ISO17, ISO21, ISO60, ISO69, ISOL1, ISOL2, ISOL5, ISOL6, LEGAL, MATH8, MCTEXT, MSPUBL, PC775<br>CUSTOM PAPER: OFF(*), ON (UNIT OF MEASURE, X DIMENSION, Y DIMENSION)<br>APPEND CR TO LF: NO(*), YES<br>ENLARGE A4: OFF(*), ON |
| 11. RESET PRINTER    | OFF(*), ON  |

\*: indicates factory settings.

## 4.1.6 TIMER SETTINGS

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

| Additional Functions | Available Settings   |
|----------------------|--|
| 1. DATE&TIME SETTING | Default setting  |
| 2. DATE TYPE SELECT  | DD/MM YYYY, YYYY MM/DD, MM/DD/ YYYY(*)   |
| 3. AUTO SLEEP TIME   | ON (3 - 30 (3*) MIN. in one-minute increments), OFF                              |
| 4. AUTO CLEAR TIME   | ON (1 - 9 (2*) MIN. in one-minute increments), OFF                               |
| 5. DAYLIGHT SV. TIME | ON: START DATE/TIME (MONTH, WEEK, DAY), END DATE/TIME (MONTH, WEEK, DAY), OFF(*) |

\*: indicates factory settings.

## 4.1.7 ADJUST./CLEANING

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

| Additional Functions  | Available Settings                                  |
|-----------------------|---|
| 1. TRANS. ROLR CLEAN  | Press [OK] to start cleaning.                       |
| 2. FIX. UNIT CLEANING | START CLEANING, CLEAN PAPER PRT                     |
| 3. FEEDER CLEANING    | Set 5 sheets in the optional feeder and press [OK]. |
| 4. SPECIAL MODE M     | MID(*), LOW, HIGH                                   |
| 5. SPECIAL MODE N     | Not functional in this model                        |
| 6. SPECIAL MODE O     | Not functional in this model                        |
| 7. SPECIAL MODE P     | OFF(*), ON  |
| 8. FIX. UNIT OFFSET   | OFF(*), SPEED PRIORITY                              |
| 9. CONT PRINT MODE    | OFF(*), ON  |
| 10. BACK EDGE MODE    | OFF(*), ON  |
| 11. LARGE PAPER MODE  | OFF(*), ON  |
| 12. AUTO ADF DRTY ADJ | OFF(*), ON  |
| 13. MAINTENANCE CODE  | Not functional in this model                        |

\*: indicates factory settings.

### 4.1.8 REPORT SETTINGS

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

| Additional Functions | Available Settings   |
|----------------------|--|
| 1. SETTINGS          | TX REPORT: PRINT ERROR ONLY(*), OUTPUT YES, OUTPUT NO<br>RX REPORT: OUTPUT NO(*), PRINT ERROR ONLY, OUTPUT YES<br>ACTIVITY REPORT: AUTO PRINT, OFF(ON(*)), TX/RX SEPARATE (OFF(*), ON) |
| 2. LIST PRINT        | ACTIVITY REPORT<br>SPEED DIAL LIST: 1-TOUCH LIST, CODED DIAL LIST, GROUP DIAL LIST<br>ADD BOOK DETAILS: 1-TOUCH LIST, CODED DIAL LIST<br>USER DATA LIST                                |

\*: indicates factory settings.

### 4.1.9 SYSTEM SETTINGS

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

| Additional Functions | Available Settings   |
|----------------------|--|
| 1. DEVICE INFO       | DEVICE NAME, LOCATION  |
| 2. NETWORK SETTINGS  | TCP/IP SETTINGS: IP ADDRESS AUTO. (OFF(*), ON(*)); DHCP, BOOTP, RARP), IP ADDRESS, SUBNET MASK, GATEWAY ADDRESS, USE LPD (ON(*); PORT NO., OFF), RAW SETTINGS (ON(*); PORT NO., USE BIDIRECTIONAL, OFF), USE HTTP (ON(*); PORT NO., OFF), SET IP ADD RANGE (OFF(*), ON), RX MAC ADD SET. (OFF(*), ON)<br>SNMP SETTINGS: USE SNMP (ON(*); PORT NO., OFF), COMMUNITY NAME 1, COMMUNITY NAME 2, SNMP WRITABLE 1 (ON(*), OFF), SNMP WRITABLE 2 (ON, OFF(*))<br>DEDICATED PORT: ON(*), OFF<br>ETHERNET DRIVER: AUTO DETECT (AUTO(*), MANUAL), DUPLEX (HALF DUPLEX(*), FULL DUPLEX), ETHERNET TYPE (10 BASE-T(*), 100 BASE-TX)<br>VIEW IP ADDRESS: IP ADDRESS, SUBNET MASK, GATEWAY ADDRESS<br>STARTUP TIME SET.: 0(*) to 300 SEC. |
| 3. COMMUNICATIONS    | TX START SPEED: 2400 to 33600(*) bps<br>RX START SPEED: 2400 to 33600(*) bps<br>MEMORY LOCK SETT: OFF(*), ON (PASSWORD, REPORT PRINT, MEMORY RX TIME)  |
| 4. REMOTE UI         | ON(*), OFF   |
| 5. ACCESS TO DEST.   | RESTRICT NEW ADD. : OFF(*), ON<br>FAX DRIVER TX: OFF, ON(*)  |
| 6. CHECKING THE LOG  | ON, OFF(*)   |
| 7. USE DEVICE USB    | OFF, ON(*)   |

\*: indicates factory settings.





# Chapter 5 Service Mode

## 5.1 Service Soft Switch Settings (SSSW)

### 5.1.1 SSSW-SW01

#### 5.1.1.1 List of Functions

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

T-5-1

| Bit | Function           | 1      | 0          |
|-----|--------------------|--------|------------|
| 0   | service error code | output | not output |
| 1   | not used           | -      | -          |
| 2   | not used           | -      | -          |
| 3   | not used           | -      | -          |
| 4   | not used           | -      | -          |
| 5   | not used           | -      | -          |
| 6   | not used           | -      | -          |
| 7   | not used           | -      | -          |

#### 5.1.1.2 Detailed Discussions of Bit 0

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

Selects whether or not service error codes are output.  
When output is selected, service error codes is report.

### 5.1.2 SSSW-SW03

#### 5.1.2.1 List of Functions

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

T-5-2

| Bit | Function                                    | 1        | 0               |
|-----|---|----------|-----------------|
| 0   | not used                                    | -        | -               |
| 1   | not used                                    | -        | -               |
| 2   | not used                                    | -        | -               |
| 3   | not used                                    | -        | -               |
| 4   | not used                                    | -        | -               |
| 5   | not used                                    | -        | -               |
| 6   | not used                                    | -        | -               |
| 7   | tonal signal before CED signal transmission | transmit | do not transmit |

#### 5.1.2.2 Detailed Discussions of Bit 7

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

Use it to enable/disable transmission of a 1080-Hz tonal signal before transmission of the CED signal.  
Select 'transmit' if errors occur frequently because of an echo when reception is from overseas.

#### Memo:

Any of the following error code may be indicated because of an echo at time of reception  
##0005, ##0101, ##0106, ##0107, ##0114, ##0200, ##0201, ##0790

### 5.1.3 SSSW-SW04

#### 5.1.3.1 List of Functions

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

T-5-3

| Bit | Function  | 1               | 0                    |
|-----|---|-----------------|----------------------|
| 0   | not used  | -               | -                    |
| 1   | not used  | -               | -                    |
| 2   | the number of final flag sequences of protocol signals                  | 2               | 1                    |
| 3   | Reception mode after CFR signal transmission                            | high speed      | high speed/low speed |
| 4   | the length of the period of ignoring low speed signals after CFR output | 1500 ms         | 700 ms               |
| 5   | not used  | -               | -                    |
| 6   | CNG signal for manual transmission                                      | Not transmitted | Transmitted          |
| 7   | CED signal for manual reception   | Not transmitted | Transmitted          |

#### 5.1.3.2 Detailed Discussions of Bit 2

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

Use it to select the number of last flag sequences for a protocol signal (transmission speed at 300 bps). Select '2' if the other party fails to receive the protocol signal properly.

**Memo:**

Any of the following error codes may be indicated at time of transmission

##0100, ##0280, ##0281, ##0750, ##0753, ##0754, ##0755, ##0758, ##0759, ##0760, ##0763 ##0764, ##0765, ##0768, ##0769, ##0770, ##0773, ##0775, ##0778, ##0780, ##0783, ##0785, ##0788

**5.1.3.3 Detailed Discussions of Bit 3**

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

Use it to select an appropriate reception mode after transmission of the CFR signal.

If errors occur frequently at time of reception because of the condition of the line, select 'high speed' for reception mode and, at the same time, selects 'do not receive' for 'ECM reception.'

**Memo:**

Any of the following error codes may be indicated at time of reception because of line condition

##0107, ##0114, ##0201

Be sure to change bit 4 before changing this bit; if errors still occur, change this bit.

When 'high speed' is selected, only high-speed signals (images) will be received after transmission of the CFR signal.

**5.1.3.4 Detailed Discussions of Bit 4**

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

Use it to select the time length during which low-speed signals are ignored after transmission of the CFR signal.

If the condition of the line is not good and, therefore, the reception of image signals is difficult, select '1500 ms.'

**5.1.3.5 Detailed Discussions of Bit 6**

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

Selects whether or not to transmit CNG signal during manual transmission.

In manual transmitting to a fax with the FAX/TEL switching mode, if there are frequent errors due to failure to switch to fax mode, select "Transmitted" for the CNG signal.

**5.1.3.6 Detailed Discussions of Bit 7**

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

Selects whether or not to transmit CED signals during manual reception. If the other fax does not transmit even when you start manual reception, select "Transmitted" for the CED signal.

**5.1.4 SSSW-SW05****5.1.4.1 List of Functions**

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

T-5-4

| Bit | Function                                     | 1       | 0              |
|-----|--|---------|----------------|
| 0   | not used                                     | -       | -              |
| 1   | Conversion from mm to inch (text mode)       | convert | do not convert |
| 2   | Conversion from mm to inch (text/photo mode) | convert | do not convert |
| 3   | not used                                     | -       | -              |
| 4   | not used                                     | -       | -              |
| 5   | not used                                     | -       | -              |
| 6   | not used                                     | -       | -              |
| 7   | not used                                     | -       | -              |

**5.1.4.2 Detailed Discussions of Bit 1**

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

Use it to enable/disable millimeter/inch conversion in sub scanning direction for images read in text mode.

Scanning direction in conversion follows the Bit 2 setting of SW14.

**5.1.4.3 Detailed Discussions of Bit 2**

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

Use it to enable/disable millimeter/inch conversion in sub scanning direction for images read in text/photo mode while bit 1 is set to '1'.

Scanning direction in conversion follows the Bit 2 setting of SW14.

**5.1.5 SSSW-SW12****5.1.5.1 List of Functions**

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

T-5-5

| Bit | Function                                       | 1 | 0 |
|-----|--|---|---|
| 0   | Time-out period for one page upon transmission | 1 | 0 |
| 1   | Time-out period for one page upon transmission | 1 | 0 |

| Bit | Function  | 1      | 0             |
|-----|---|--------|---------------|
| 2   | not used  | -      | -             |
| 3   | not used  | -      | -             |
| 4   | Time-out period for one page upon reception                       | 1      | 0             |
| 5   | Time-out period for one page upon reception                       | 1      | 0             |
| 6   | not used  | -      | -             |
| 7   | Respective page timer settings for transmission and for reception | enable | do not enable |

The machine will stop the ongoing communication if the transmission/reception of a single original page takes 32 min or more. To use the timer for a purpose other than this function, refer to the tables that follow, and select an appropriate time length.

When 'do not enable' is selected using bit 7, the time-out length for a single page for all modes will depend on the setting of bit 0 and bit 1.

T-5-6

| Time-Out Length for Transmission/Reception | Bit7 | Bit6 | Bit5 | Bit4 | Bit3 | Bit2 | Bit1 | Bit0 |
|--|------|------|------|------|------|------|------|------|
| 8 min                                      | 0    | *    | *    | *    | *    | *    | 0    | 0    |
| 16 min                                     | 0    | *    | *    | *    | *    | *    | 0    | 1    |
| 32 min                                     | 0    | *    | *    | *    | *    | *    | 1    | 0    |
| 64 min                                     | 0    | *    | *    | *    | *    | *    | 1    | 1    |

T-5-7

| Time-Out Length for Transmission (in text mode) | Bit7 | Bit6 | Bit5 | Bit4 | Bit3 | Bit2 | Bit1 | Bit0 |
|---|------|------|------|------|------|------|------|------|
| 8 min   | 1    | *    | *    | *    | *    | *    | 0    | 0    |
| 16 min  | 1    | *    | *    | *    | *    | *    | 0    | 1    |
| 32 min  | 1    | *    | *    | *    | *    | *    | 1    | 0    |
| 64 min  | 1    | *    | *    | *    | *    | *    | 1    | 1    |

T-5-8

| Time-Out Length for Reception | Bit7 | Bit6 | Bit5 | Bit4 | Bit3 | Bit2 | Bit1 | Bit0 |
|-------------------------------|------|------|------|------|------|------|------|------|
| 8 min                         | 1    | *    | 0    | 0    | *    | *    | *    | *    |
| 16 min                        | 1    | *    | 0    | 1    | *    | *    | *    | *    |
| 32 min                        | 1    | *    | 1    | 0    | *    | *    | *    | *    |
| 64 min                        | 1    | *    | 1    | 1    | *    | *    | *    | *    |

## 5.1.6 SSSW-SW13

### 5.1.6.1 List of Functions

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

T-5-9

| Bit | Function   | 1       | 0              |
|-----|--|---------|----------------|
| 0   | not used   | -       | -              |
| 1   | not used   | -       | -              |
| 2   | Convert "inch" into "mm" when transmitting the received image data | convert | do not convert |
| 3   | not used   | -       | -              |
| 4   | not used   | -       | -              |
| 5   | not used   | -       | -              |
| 6   | not used   | -       | -              |
| 7   | not used   | -       | -              |

### 5.1.6.2 Detailed Discussions of Bit 2

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

It converts "inch" into "mm" when transmitting the received image data. Scanning direction in conversion follows the Bit 2 setting of SW14.

## 5.1.7 SSSW-SW14

### 5.1.7.1 List of Functions

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

T-5-10

| Bit | Function                                     | 1                                     | 0                           |
|-----|--|---------------------------------------|-----------------------------|
| 0   | not used                                     | -                                     | -                           |
| 1   | not used                                     | -                                     | -                           |
| 2   | direction of scanning for inch/mm conversion | both main and sub scanning directions | sub scanning direction only |
| 3   | not used                                     | -                                     | -                           |
| 4   | inch-configuration resolution declaration    | declare                               | do not declare              |
| 5   | not used                                     | -                                     | -                           |

| Bit | Function | 1 | 0 |
|-----|----------|---|---|
| 6   | not used | - | - |
| 7   | not used | - | - |

### 5.1.7.2 Detailed Discussions of Bit 2

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

Use it to specify whether to convert or not convert an inch-configuration resolution into a millimeter-configuration resolution for image read in G3 transmission: either in sub scanning direction only or in both main and sub scanning directions. The setting is valid only when bit 1 of SW05 of #SSSW is set to '1'.

### 5.1.7.3 Detailed Discussions of Bit 4

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

Use it to specify whether to declare or not declare an inch-configuration resolution to the other machine for G3 communication: if 'declare' is selected, the machine will indicate that it reads and records at an inch-configuration resolution using the DIS, DCS, or DTC signal.

## 5.1.8 SSSW-SW28

### 5.1.8.1 List of Functions

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

T-5-11

| Bit | Function                             | 1          | 0              |
|-----|--------------------------------------|------------|----------------|
| 0   | Caller V.8 protocol                  | NO         | YES            |
| 1   | Called party V.8 protocol            | NO         | YES            |
| 2   | Caller V.8 protocol late start       | NO         | YES            |
| 3   | Called party V.8 protocol late start | NO         | YES            |
| 4   | V.34 reception fallback              | Prohibited | Not prohibited |
| 5   | V.34 transmission fallback           | Prohibited | Not prohibited |
| 6   | not used                             | -          | -              |
| 7   | not used                             | -          | -              |

### 5.1.8.2 Detailed Discussions of Bit 0

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

Select whether to use the V.8 protocol when calling. If NO is selected, the V.8 protocol is inhibited at calling and the V.21 protocol is used.

### 5.1.8.3 Detailed Discussions of Bit 1

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

Select whether to use the V.8 protocol when called. If NO is selected, the V8 protocol is inhibited when called and the V.21 protocol is used.

### 5.1.8.4 Detailed Discussions of Bit 2

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

If ANSam signal is not received during transmission, select whether to use the V.8 protocol when the other fax machine declares the V.8 protocol in DIS signal. If NO is selected, the CI signal is not transmitted and the V.8 protocol is not used even if the DIS that specifies the V.8 protocol is received. The V.8 late start is not executed during manual transmission regardless of this setting.

### 5.1.8.5 Detailed Discussions of Bit 3

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

Select whether to declare the V.8 protocol in DIS signal for reception. If NO is selected, the V.8 protocol cannot be used because it is not declared in DIS signal. The V.8 late start is not executed during manual reception regardless of this setting.

### 5.1.8.6 Detailed Discussions of Bit 4

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

Select whether the receiver falls back during V.34 reception. If 'Prohibit' is selected, the receiver does not fall back.

### 5.1.8.7 Detailed Discussions of Bit 5

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

Select whether the transmitter falls back during V.34 transmission. If 'Prohibit' is selected, the transmitter does not fall back.

## 5.1.9 SSSW-SW30

### 5.1.9.1 List of Functions

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

T-5-12

| Bit | Function | 1 | 0 |
|-----|----------|---|---|
| 0   | Not used | - | - |
| 1   | Not used | - | - |
| 2   | Not used | - | - |
| 3   | Not used | - | - |

| Bit | Function                       | 1                           | 0                                |
|-----|--------------------------------|-----------------------------|----------------------------------|
| 4   | Not used                       | -                           | -                                |
| 5   | New dial tone detection method | Detect with the new method. | Detect with the existing method. |
| 6   | Not used                       | -                           | -                                |
| 7   | Not used                       | -                           | -                                |

### 5.1.9.2 Detailed Discussions of Bit 5

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

When "Detect with the new method" is selected, tone is detected for 3.5 seconds before call origination in order to discriminate between dial tone and voice. If dial tone is detected and the time since line seizure is 3.5 seconds or longer, call origination takes place immediately. If the time since line seizure is less than 3.5 seconds, call origination takes place after waiting for 1 second. (If the time since line seizure reaches 3.5 seconds during the 1-second waiting period, call origination takes place immediately. By default, "Detect with a new method" is assigned for this SW.

## 5.2 Menu Switch Settings (MENU)

### 5.2.1 Menu Switch Composition

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

T-5-13

| No. | Function                          | Range of settings  |
|-----|-----------------------------------|--|
| 005 | NL equalizer                      | 1: ON, 0: OFF  |
| 006 | telephone line monitor            | 0:DIAL, 1:SERVICEMAN1, 2:SERVICEMAN2, 3:OFF  |
| 007 | transmission level (ATT)          | from 0 to 15 (ex: 15= -15 dBm)   |
| 008 | V.34 modulation speed upper limit | 0:3429, 1:3200, 2:3000, 3:2800, 4:2743, 5:2400   |
| 009 | V34 data speed upper limit        | 0:33.6 kbps, 1:31.2 kbps, 2:28.8 kbps, 3:26.4 kbps, 4:24.0 kbps, 5:21.6 kbps, 6:19.2 kbps, 7:16.8 kbps, 8:14.4 kbps, 9:12.0 kbps, 10:9.6 kbps, 11:7.2 kbps, 12:4.8 kbps, 13:2.4 kbps |
| 010 | Frequency of pseudoring signal    | 0:50 Hz, 1:25 Hz, 2:17 Hz  |

#### 5.2.2 <No.005 NL equalizer>

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

Use it to enable-disable the NL equalizer.

If errors occur often during communication because of the condition of the line, enable (ON) the NL equalizer.

Any of the following error codes may be indicated at time of transmission because of the line condition:

##100, ##101, ##102, ##104, ##201, ##281, ##282, ##283, ##750, ##755, ##765, ##774, ##779, ##784, ##789

Any of the following error codes may be indicated at time of transmission because of the line condition:

##103, ##107, ##114, ##201, ##790, ##793

#### 5.2.3 <No.006 telephone line monitor>

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

Use it to set the telephone line monitor function:

DIAL: generate the monitor sound of the telephone line using the speaker from the start of transmission to DIS.

SERVICEMAN [1]: generate the monitor sound of the telephone line using the speaker from the start of communication to the end of it.

SERVICEMAN [2]: generate the monitor sound of the telephone line2 (Option).

OFF: do not generate the monitor sound of the telephone line using the speaker.

#### 5.2.4 <No.007 ATT transmission level>

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

Use it to set the transmission level (ATT).

Raise the transmission level if errors occur frequently at time of communication because of the condition of the line. (It means close to 8)

Any of the following error codes may be indicated at time of transmission because of the line condition:

##100, ##101, ##102, ##104, ##201, ##280, ##281, ##282, ##283, ##284, ##750, ##752, ##754, ##755, ##757, ##759, ##760, ##762, ##764, ##765, ##767, ##769, ##770, ##772, ##774, ##775, ##777, ##779, ##780, ##782, ##784, ##785, ##787, ##789

Any of the following error codes may be indicated at time of reception because of the line condition:

##103, ##106, ##107, ##201, ##793

#### 5.2.5 <No.008 V.34 modulation speed upper limit>

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

Use it to set an upper limit to the modulation speed (baud rate) for the V.34 primary channel.

#### 5.2.6 <No.009 V.34 data speed upper limit>

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

Use it to set an upper limit to the data transmission speed for the V.34 primary channel between 2.4K and 33.6K bps in increments of 2400 bps. (0: 2.4K to 13: 33.6K bps).

#### 5.2.7 <No.010 Frequency of the pseudo CI signal>

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

You may select a frequency for the pseudo CI signal.

Some types of external telephones do not ring when the fax/tel switch-over function is ON. To sound the ring, change the pseudo CI signal.

## 5.3 Numeric Parameter Settings (NUMERIC Param.)

### 5.3.1 <No.010 Frequency of the pseudo CI signal>

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

T-5-14

| No. | Item  | Range of settings              |
|-----|---|--------------------------------|
| 002 | RTN transmission condition(1)                               | 1% to 99%                      |
| 003 | RTN transmission condition (2)                              | 2 to 99 item                   |
| 004 | RTN transmission condition (3)                              | 1 to 99 lines                  |
| 005 | NCC pause time length (pre-ID code)                         | 1 to 60 sec                    |
| 006 | NCC pause time length (post-ID code)                        | 1 to 60 sec                    |
| 010 | line condition identification time length                   | 0 to 9999 (10 msec)            |
| 011 | T.30T1 timer (for reception)                                | 0 to 9999 (10 msec)            |
| 013 | T.30 EOL timer  | 500 to 3000 (10 msec)          |
| 015 | hooking detection time length                               | 0 to 999                       |
| 016 | time length to first response at time of fax/tel switchover | 0 to 9                         |
| 017 | pseudo RBT signal pattern ON time length                    | 0 to 999                       |
| 018 | pseudo RBT signal pattern OFF time length (short)           | 0 to 999                       |
| 019 | pseudo RBT signal pattern OFF time length (long)            | 0 to 999                       |
| 020 | pseudo CI signal pattern ON time length                     | 0 to 999                       |
| 021 | pseudo CI signal pattern OFF time length (short)            | 0 to 999                       |
| 022 | pseudo CI signal pattern OFF time length (long)             | 0 to 999                       |
| 023 | CNG detection level at time of fax/tel switchover           | 0 to 7                         |
| 024 | pseudo RBT transmission level at time of fax/tel switchover | 10 to 20<br>0 to 20 (120/230V) |
| 025 | Answering machine connection function signal detection time | 0 to 999                       |
| 027 | preamble detection time length for V21 low-speed flag       | 20 (x 10ms)                    |

### 5.3.2 <002: RTN transmission condition (1)><003: RTN transmission condition (2)><004: RTN transmission condition (3)>

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

Use it to set RTN signal transmission conditions. Raise these parameters for more lenient conditions if errors occur frequently at time of reception because of transmission of the RTN signal.

#### Memo:

Any of the following error codes may be indicated at time of reception because of RTN signal transmission

##0104, ##0107, ##0114, ##0201

RTN signal transmission condition (1) affects the ratio of error lines to the total number of lines per single page of received images.

RTN signal transmission condition (2) affects the standard value (\*2) of burst errors (\*1).

RTN signal condition (3) affects the number of errors not reaching the standard value of burst errors.

\*1: transmission error occurring cover several lines.

\*2: for instance, if '15' is set, a single burst error will represent an error occurring continuously cover 15 lines.

If any of these lines is detected while an image signal is being received, the RTN signal will be transmitted after receiving the protocol signal of the transmitting party. Higher parameters restrict the transmission of the RTN signal.

### 5.3.3 <005: NCC pause length (pre-ID code)>

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

Use it to set the length of the pause automatically entered between access code and ID code when the NCC (New Common Carrier) line is used for dialing.

### 5.3.4 <006: NCC pause length (post-ID code)>

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

Use it to set the length of the pause automatically entered between ID code and telephone number of the other party when the NCC (New Common Carrier) line is used for dialing.

### 5.3.5 <010: line connection identification length>

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

Use it to set the time for identifying the line connection. Raise this parameter if errors occur frequently at time of communication because of the condition of the line.

#### Memo:

Any of the following error codes may be indicated because of the condition of the line

##0005, ##0018

The line condition identification time is between when the dial signal is transmitted and when the line condition is cut for the transmitting party, while it is between when the DIS signal is transmitted and when the line is cut for the receiving party.

**5.3.6 <011: T.30 T1 timer (for reception)>**

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

Set the T1 timer for the receiver (wait time after DIS transmission starts until a significant signal is received).

**5.3.7 <013: T.30 EOL timer>**

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

Set it so that the 1-line transmission time is longer for reception to prevent reception errors caused by a long data length per line (e.g., computer FAX).

**5.3.8 <016: time length to first response at time of fax/tel switchover>**

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

Allows setting of the time from seizing the line till pseudo RBT is sent, when the Fax/ Tel switching function is operating.

**5.3.9 <017: pseudo RBT signal pattern ON time length><018: pseudo RBT signal pattern OFF time length (short)><019: pseudo RBT signal pattern OFF time length (long)>**

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

Use it to set the pattern of the pseudo RBT signal transmitted at time of a fax/tel switchover.

**5.3.10 <020: pseudo CI signal pattern ON time length><021: pseudo CI signal pattern OFF time length (short)><022: pseudo CI signal pattern OFF time length (long)>**

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

Use it to set the pseudo CI signal pattern transmitted at time of a fax/tel switchover.

**5.3.11 <023: CNG detention level for fax/tel switchover>**

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

Use it to set the CNG detention level for a fax/tel switchover.

**5.3.12 <024: pseudo RBT transmission level at time of fax/tel switchover>**

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

Use it to set the pseudo transmission level for a fax/tel switchover.

**5.3.13 <025: Answering machine connection function signal detection time>**

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

Sets the signal detection time for the answering machine connection function operation. When the answering machine connection function is operating, if the function does not operate normally because the fax does not detect CNG signal sent from the line, raise this parameter to increase the signal detection time.

**5.3.14 <027: V.21 low-speed flag preamble identification length>**

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

Use it to detect the time of detection after which command analysis is started after detecting V.21 low-speed command preambles continuously for a specific period of time.

**5.4 Scanner Function Settings (SCANNER)****5.4.1 Numeric Parameter Functional configuration**

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

| No.         | Function  | Default | Setting range | Unit           |
|-------------|---|---------|---------------|----------------|
| 001: - 023: | Not used  |         |               |                |
| 024:        | CIS scan position during ADF scanning.                                | 385     | 300-450       | one unit=0.1mm |
| 025:        | Not used  |         |               |                |
| 026:        | Distance from the standby position of CIS to the shading start point. | 22      | 6-48          | one unit=0.1mm |
| 027: - 030: | Not used  |         |               |                |
| 031:        | Vertical scan start position adjustment                               | 35      | 0-70          | one unit=0.1mm |
| 032:        | Horizontal scan start position adjustment                             | 115     | 50-150        | one unit=0.1mm |
| 033:        | Vertical scan magnification correction                                | 32      | 0-32          | one unit=0.1%  |
| 034:        | Horizontal scan magnification correction                              | 32      | 0-32          | one unit=0.1%  |
| 035: - 036: | Reader motor speed adjustment   | 555     |               |                |
| 037: - 040: | Not used  |         |               |                |
| 041:        | Vertical scan start position adjustment (scanning on ADF)             | 35      | 0-70          | one unit=0.1mm |
| 042:        | Horizontal scan start position adjustment (scanning on ADF)           | 219     | 170-270       | one unit=0.1mm |
| 043:        | Horizontal scan end position correction (copy:scanning on ADF)        | 75      | 0-200         | one unit=0.1mm |

| No.         | Function  | Default | Setting range  | Unit           |
|-------------|---|---------|--|----------------|
| 044:        | Horizontal scan end position correction (superfine:scanning on ADF) | 75      | 0-200  | one unit=0.1mm |
| 045:        | Horizontal scan end position correction (fine:scanning on ADF)      | 75      | 0-200  | one unit=0.1mm |
| 046:        | Horizontal scan end position correction (standard:scanning on ADF)  | 75      | 0-200  | one unit=0.1mm |
| 047:        | Vertical scan magnification correction (scanning on ADF)            | 32      | 0-32   | one unit=0.1%  |
| 048:        | Horizontal scan magnification correction (scanning on ADF)          | 32      | 0-32   | one unit=0.1%  |
| 049: - 053: | Not used  |         |  |                |
| 054:        | Pickup motor speed correction (when the ADF is used)                | 32      | 0-32   | one unit=0.1%  |
| 055: - 192: | Not used  |         |  |                |
| 193:        | ADF special paper, standardized size: LGL misidentification-ready   | 0       | 0 : LEGAL<br>1 : FOOLSCAP<br>2 : M_OFFICIO<br>3 : A_FOOLSCAP<br>4 : FOLIO<br>5 : G_LEGAL<br>6 : A_OFFICIO<br>7 : B_OFFICIO |                |
| 194:        | ADF special paper, standardized size: LTR misidentification-ready   | 0       | 0 : LTR<br>1 : G_LTR<br>2 : A_LTR  |                |
| 195:        | ADF special paper, standardized size: LTR_R misidentification-ready | 0       | 0 : LTR_R<br>1 : FOOLSCAP<br>2 : OFFICIO<br>3 : E_OFFICIO<br>4 : G_LTR_R<br>5 : A_LTR_R                                    |                |
| 196: - 350: | Not used  |         |  |                |

 If any operation error occurs after changing the setting value, change the setting value to the original one.

#### 5.4.2 <024:CIS scan position during ADF scanning>

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

This value is used when automatic scan position adjustment (TESTMODE>"2"SCAN TEST>"3"SHEET POS ADJ) fails.

#### 5.4.3 <026:Distance from the standby position of CIS to the shading start point>

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

White shading can be adjusted finely.

 Normally, do not change the setting value. If any operation error occurs after changing the setting value, change the setting value to the original one.

#### 5.4.4 <031Vertical scan start position adjustment>

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

Adjust the position at which vertical scanning of a book starts. The larger the adjustment value, the narrower the left-side margin of the image becomes.

#### 5.4.5 <032Horizontal scan start position adjustment>

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

Adjust the position at which horizontal scanning of a book starts. The larger the adjustment value, the narrower the top margin in the image becomes.

#### 5.4.6 <033Vertical scan magnification correction>

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

Correct the magnification of vertical scanning of a book. The larger the adjustment value, the more the image stretches in the vertical scanning direction.

#### 5.4.7 <034Horizontal scan magnification correction>

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

Correct the magnification of horizontal scanning of a book. The larger the adjustment value, the more the image stretches in the horizontal scanning direction.

#### 5.4.8 <035: - 036:Reader motor speed change>

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

Though no market adjustment work needs to be carried out, enter factory defaults at image processor PCB replacement.

#### 5.4.9 <041: Vertical scan start position adjustment (when scanning on a document fed from ADF)>

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

Adjust the position at which vertical scanning of a document fed from the ADF starts. The larger the adjustment value, the narrower the left-side margin of the image becomes.

#### 5.4.10 <042: Horizontal scan start position adjustment (when scanning on a document fed from ADF)>

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

Adjust the position at which horizontal scanning of a document fed from the ADF starts. The larger the adjustment value, the narrower the top margin of the image becomes.

#### 5.4.11 <043: Horizontal scan end position correction ((copy:scanning on ADF)>

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

Adjust the position at which horizontal scanning of a document being copied ends (when scanning on a document fed from ADF). The larger the adjustment value, the narrower the bottom margin of the image becomes.

#### 5.4.12 <044: Horizontal scan end position correction (superfine:scanning on ADF)>

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

Adjust the position at which horizontal scanning of a FAX document scanned in superfine mode ends. The larger the adjustment value, the narrower the bottom margin of the image becomes.

#### 5.4.13 <045: Horizontal scan end position correction (fine:scanning on ADF)>

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

Adjust the position at which horizontal scanning of a FAX document scanned in fine mode ends. The larger the adjustment value, the narrower the bottom margin of the image becomes.

#### 5.4.14 <046: Horizontal scan end position correction (standard:scanning on ADF)>

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

Adjust the position at which horizontal scanning of a FAX document set to the standard scan resolution ends. The larger the adjustment value, the narrower the bottom margin of the image becomes.

#### 5.4.15 <047: Vertical scan magnification correction (when scanning on a document fed from ADF)>

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

Correct the magnification of vertical scanning of a document fed from the ADF. The larger the adjustment value, the more the image stretches in the vertical scanning direction.

#### 5.4.16 <048: Horizontal scan magnification correction (when scanning on a document fed from ADF)>

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

Correct the magnification of horizontal scanning of a document fed from the ADF. The smaller the adjustment value, the more the image reduces in the horizontal scanning direction.

This menu is used to adjust the ADF feed motor speed. If you changed the adjustment value in this mode, the adjustment value selected for SCAN NUMERIC>54 must also be incremented/decremented by the same amount.

 Do not change the adjustment value extremely.

#### 5.4.17 <054: Pickup motor speed correction (when the ADF is used) >

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

This menu is used to adjust the ADF pickup motor speed. If you have adjusted the ADF feed motor speed by selecting SCAN NUMERIC>48, the ADF pickup motor speed must also be incremented/decremented by the same amount.

 Do not change the adjustment value extremely.

#### 5.4.18 <193: ADF special standard-sized paper: LGL misidentification-ready>

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

Set to use special standard-sized paper that is not otherwise identifiable to the ADF (because it is misidentified as "LEGAL").

0: LEGAL  
1: FOOLSCAP  
2: M\_OFFICIO  
3: A\_FOOLSCAP  
4: FOLIO  
5: G\_LEGAL  
6: A\_OFFICIO  
7: B\_OFFICIO

#### 5.4.19 <194: ADF special standard-sized paper: LTR misidentification-ready>

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

Set to use special standard-sized paper that is not otherwise identifiable to the ADF (because it is misidentified as "LTR").

0: LTR  
1: G\_LTR  
2: A\_LTR

#### 5.4.20 <195: ADF special standard-sized paper: LTR\_R misidentification-ready>

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

Set to use special standard-sized paper that is not otherwise identifiable to the ADF (because it is misidentified as "LTRR").

0: LTR\_R  
 1: FOOLSCAP  
 2: OFFICIO  
 3: E\_OFFICIO  
 4: G\_LTR\_R  
 5: A\_LTR\_R

## 5.5 Printer Function Settings (PRINTER)

### 5.5.1 Service Soft Switch Settings (SSSW)

#### 5.5.1.1 SSSW-SW05

##### 5.5.1.1.1 List of Functions

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

0011-4190

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| Bit | Function  | 1     | 0            |
|-----|---|-------|--------------|
| 0   | not used  | -     | -            |
| 1   | not used  | -     | -            |
| 2   | not used  | -     | -            |
| 3   | not used  | -     | -            |
| 4   | not used  | -     | -            |
| 5   | not used  | -     | -            |
| 6   | not used  | -     | -            |
| 7   | priority on recording in sub scanning direction | place | do not place |

##### 5.5.1.1.2 Detailed Discussions of Bit 7

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

0011-4191

Use it to enable/disable placement of priority on recording in sub scanning direction.

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|               |  |
|---------------|--|
| place:        | if B4 recording paper and A4 recording paper are set and an A4 extra-long image (*) is received, printing will be on the B4 recording paper.                   |
| do not place: | if B5 horizontal recording paper and A4 recording paper are set and a B4 image is received, printing will be by division and on B5 horizontal recording paper. |

\*: Image B4 or shorter and that cannot be printed by division and on A4 recording paper.

#### 5.5.1.2 SSSW-SW14

##### 5.5.1.2.1 List of Functions

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

0011-4192

T-5-17

| Bit | Function                              | 1      | 0       |
|-----|---------------------------------------|--------|---------|
| 0   | Transfer bias pressure reduction mode | Enable | Disable |
| 1   | Not used                              | -      | -       |
| 2   | Black belt addition mode              | Enable | Disable |
| 3   | Not used                              | -      | -       |
| 4   | Flicker reduction mode                | Enable | Disable |
| 5   | Silent mode                           | Enable | Disable |
| 6   | Terminal temperature rise Not used    | -      | -       |
| 7   | Pre-rotation extension mode           | Enable | Disable |

##### 5.5.1.2.2 Detailed Discussions of Bit 0

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

0011-4193

Select whether to enable or disable transfer bias pressure reduction mode.

Select "Enable" to avoid image defects (black spots) produced by transfer bias leaks occurring in a low-pressure region, such as one at a high altitude. This setting regulates the transfer bias to keep it from exceeding a predetermined level during printing.

##### 5.5.1.2.3 Detailed Discussions of Bit 2

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

0011-4194

Select whether to enable or disable black belt addition mode. If the user uses paper that causes fixed toner on paper to be fused and adhered to drum, selecting "Yes" will clean the drum by forming a black band on the drum surface during the reverse rotation which is performed after printing on 50 sheets.

#### 5.5.1.2.4 Detailed Discussions of Bit 4

0011-4195

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

Select whether to enable or disable flicker reduction mode. Select "Enable" and enter a count to modify fusing temperature control to cancel fluorescent flicking during printing.

 Implementation of this mode would degrade the throughput.

#### 5.5.1.2.5 Detailed Discussions of Bit 5

0012-7581

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

Select whether to enable or disable silent mode. Select "Enable" to modify the registration loop amount and thus reduce noises or squeaks the registration rollers produce after picking paper from the individual paper inlets.

#### 5.5.1.2.6 Detailed Discussions of Bit 7

0012-7584

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

You can specify whether the pre-rotation is to be extended.

If white streaks appear in the image in the H/H environment, selecting "Set" extends the pre-rotation by five turns. During the extended period, the charge Vpp is increased to prevent white streaks from occurring.

### 5.5.1.3 SSSW-SW15

#### 5.5.1.3.1 List of Function

0011-7100

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

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| Bit | Function  | 1      | 0       |
|-----|---|--------|---------|
| 0   | Not used  | -      | -       |
| 1   | Not used  | -      | -       |
| 2   | Not used  | -      | -       |
| 3   | IFAX Permission of split recording of text data | Enable | Disable |
| 4   | Not used  | -      | -       |
| 5   | Not used  | -      | -       |
| 6   | Not used  | -      | -       |
| 7   | Not used  | -      | -       |

#### 5.5.1.3.2 Detailed Discussions of Bit 2

0011-7102

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

You can specify whether split recording is to be enabled when text data such as a header and body text is recorded. Selecting "Set" may split text data when a small paper size such as A5 is selected. In this case, a page may be split in the middle of a character string.

### 5.5.2 Numeric Parameter Settings (NUMERIC Param.)

#### 5.5.2.1 Numeric Parameter Functional configuration

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

| No.       | Function   | Default | Setting range                 |
|-----------|--|---------|-------------------------------|
| 01: - 30: | Not used   |         |                               |
| 31:       | Top registration adjustment (manual feed tray)         | 50      | 0 to 100, one unit = 0.1 mm   |
| 32:       | Top registration adjustment (cassette)                 | 50      | 0 to 100, one unit = 0.1 mm   |
| 33:       | Top registration adjustment (duplex unit)              | 50      | 0 to 100, one unit = 0.1 mm   |
| 34:       | Left-end registration adjustment (manual feed tray)    | 100     | 0 to 200, one unit = 0.1 mm   |
| 35:       | Left-end registration adjustment (cassette)            | 100     | 0 to 200, one unit = 0.1 mm   |
| 36:       | Left-end registration adjustment (option cassette)     | 100     | 0 to 200, one unit = 0.1 mm   |
| 37: - 38: | Not used   |         |                               |
| 39:       | Left-end registration adjustment (duplex unit)         | 100     | 0 to 200, one unit = 0.1 mm   |
| 40:       | Target fixing temperature adjustment (multi)           | 6       | 0 to 4, one unit = 5 deg C    |
| 41:       | Target fixing temperature adjustment (cassette)        | 6       | 0 to 4, one unit = 5 deg C    |
| 42:       | Target fixing temperature adjustment (option cassette) | 6       | 0 to 4, one unit = 5 deg C    |
| 43: - 50: | Not used   |         |                               |
| 51:       | Two-sided curl reform mode                             | 3       | 0 to 6                        |
| 52:       | Not used   |         |                               |
| 53:       | Adjustment of margin at leading edge of copy           | 0       | 0 to 9999, one unit = 5 deg C |
| 54:       | Adjustment of margin at trailing edge of copy          | 50      | 0 to 9999, one unit = 5 deg C |
| 55:       | Adjustment of margin at right edge of copy             | 0       | 0 to 9999, one unit = 5 deg C |
| 56:       | Adjustment of margin at left edge of copy              | 0       | 0 to 9999, one unit = 5 deg C |

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### 5.5.2.2 <031: Top registration adjustment (manual feed tray)>

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

Adjust the top registration margin of paper picked from a manual feed tray. The larger the adjustment value, the wider the top margin of the image becomes.

### 5.5.2.3 <032: Top registration adjustment (cassette)>

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

Adjust the top registration margin of paper picked from cassettes. The larger the adjustment value, the wider the top margin of the image becomes.

### 5.5.2.4 <033: Top registration adjustment (duplex unit)>

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

Adjust the top registration margin of paper picked from a duplex unit. The larger the adjustment value, the wider the top margin of the image becomes.

### 5.5.2.5 <034: Left-end registration adjustment (manual feed tray)>

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

Adjust the left-end registration margin of paper picked from a manual feed tray. The larger the adjustment value, the wider the left-end margin of the image becomes.

### 5.5.2.6 <035: Left-end registration adjustment (cassette 1)>

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

Adjust the left-end registration margin of paper picked from cassette 1. The larger the adjustment value, the wider the left-end margin of the image becomes.

### 5.5.2.7 <036: Left-end registration adjustment (cassette 2)>

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

Adjust the left-end registration margin of paper picked from cassette 2. The larger the adjustment value, the wider the left-end margin of the image becomes.

### 5.5.2.8 <039: Left-end registration adjustment (duplex unit)>

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

Adjust the left-end registration margin of paper picked from a duplex unit. The larger the adjustment value, the wider the left-end margin of the image becomes.

### 5.5.2.9 <040: Target fixing temperature adjustment (manual feed tray)>

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

Lower the fixing temperature from the target temperature setting to reduce the chances of fixing offsets and curled or stuck delivered sheets occurring with paper picked from a manual feed tray.

### 5.5.2.10 <041: Target fixing temperature adjustment (cassette 1)>

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

Lower the fixing temperature from the target temperature setting to reduce the chances of fixing offsets and curled or stuck delivered sheets occurring with paper picked from cassette 1.

### 5.5.2.11 <042: Target fixing temperature adjustment (cassette 2)>

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

Lower the fixing temperature from the target temperature setting to reduce the chances of fixing offsets and curled or stuck delivered sheets occurring with paper picked from cassette 2.

### 5.5.2.12 <053: Margin adjustment at the leading edge of the copy>

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

Adjust the margin at the leading edge of the copy. Increasing the value makes the margin at the leading edge larger.

### 5.5.2.13 <054: Margin adjustment at the trailing edge of the copy>

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

Adjust the margin at the trailing edge of the copy. Increasing the value makes the margin at the trailing edge larger.

### 5.5.2.14 <055: Margin adjustment at the right edge of the copy>

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

Adjust the margin at the right edge of the copy. Increasing the value makes the margin at the right edge larger.

### 5.5.2.15 <056: Margin adjustment at the left edge of the copy>

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

Adjust the margin at the left edge of the copy. Increasing the value makes the margin at the left edge larger.

## 5.6 Counter Indication (COUNTER)

### 5.6.1 Counters

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

This copier is furnished with a maintenance/supplies counter set (DRBL-1), which can be used to gain rough measures of when to replace supplies. The counter set increments by one on counting each sheet of small-sized paper (up to A4/LTR) and by two on counting each sheet of large-sized paper (larger than A4/LTR).

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| Maintenance counter list         |          |   |
|----------------------------------|----------|---|
| Item                             | Counter  | Explanation                             |
| TOTAL (Total counter)            | SERVICE1 | Service total counter 1                 |
|                                  | SERVICE2 | Service total counter 2                 |
|                                  | TTL      | Total counter                           |
|                                  | COPY     | Total copy counter                      |
|                                  | PDL-PRT  | PDL print counter                       |
|                                  | FAX-PRT  | Fax print counter                       |
|                                  | REP-PRT  | Report print counter                    |
|                                  | 2-SIDE   | Double-sided copy/print counter         |
|                                  | SCAN     | Scan counter                            |
| PICK-UP (Paper pickup counter)   | C1       | Cassette 1 jam counter                  |
|                                  | C2       | Cassette 2 jam counter                  |
|                                  | C3       | Cassette 3 jam counter                  |
|                                  | C4       | Cassette 4 jam counter                  |
|                                  | MF       | Manual feed tray pickup total counter   |
|                                  | 2-SIDE   | Double-sided paper pickup total counter |
| FEEDER (Feeder related counters) | FEED     | Feeder pickup total counter             |
|                                  | DFOP-CNT | ADF open/close hinge counter            |
| JAM (Jam counters)               | TTL      | Unit total jam count                    |
|                                  | FEEDER   | Feeder total jam count                  |
|                                  | SORTER   | Finisher total jam count                |
|                                  | 2-SIDE   | Duplex unit jam counter                 |
|                                  | MF       | Manual feed tray jam counter            |
|                                  | C1       | Cassette 1 jam counter                  |
|                                  | C2       | Cassette 2 jam counter                  |
|                                  | C3       | Cassette 3 jam counter                  |
|                                  | C4       | Cassette 4 jam counter                  |
| MISC (Other required counter)    | WST-TNR  | Waste toner counter                     |

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| Parts counter list     |          |  |              |
|------------------------|----------|--|--------------|
| Item                   | Counter  | Explanation                                      | Service life |
| DRBL-1 (Unit supplies) | FX-UNIT  | Fixing unit paper pass count                     | 150,000      |
|                        | TR-ROLL  | Transfer charger roller high-voltage ON count    | 150,000      |
|                        | DV-UNT-C | Developing unit rotation count                   | 150,000      |
|                        | M-PU-RL  | Manual feed tray pickup roller paper pass count  | 150,000      |
|                        | M-SP-PD  | Manual feed tray separation pad paper pass count | 150,000      |

### 5.6.2 Clearing Counters

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

- Maintenance/parts counter all clear  
Execute service mode > CLEAR > COUNTER to clear all maintenance/parts counters.

- Counter clear on parts replacement  
Press the numeric keypad key 0 after displaying the counter for a part just replaced, and the counter will be cleared individually.

## 5.7 Report Output (REPORT)

### 5.7.1 Report Output

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

The table below lists the kinds of reports that are supported.

| Item              | Explanation   |
|-------------------|---|
| SERVICE DATA LIST | Service mode service soft switch output (SSSW, MENU, NUMERIC Param., SPECIAL, NCU, SCAN, PRINT, SYSTEM, ROM, start date)                            |
| SYSTEM DATA LIST  | Service mode service soft switch output (SSSW, MENU, NUMERIC Param., SPECIAL, NCU, SCAN, PRINT, SYSTEM, ROM, start date)<br>System dump list output |
| SYSTEM DUMP LIST  | Transmission count, reception count, record chart count, error count and other outputs  |
| COUNTER REPORT    | Counter output  |
| ERROR LOG LIST    | Jam and error history output  |
| SPEC LIST         | Type setting, print speed, memory size, ROM indication, adjustment data and other outputs   |
| SERVICE LABEL     | Output of an entry format for the service label affixed to the rear cover as shipped  |

### 5.7.2 System Data List

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

Use it to check the settings associated with the service soft switch and service parameters.

```

06/30/2005 12:00 FAX
*****
*** SYSTEM DATA LIST ***
*****

#SSSW

SW01 ..... 00000000
SW02 ..... 10000000
SW03 ..... 00000000
SW04 ..... 10000000
SW05 ..... 00000000
SW06 ..... 10000000
SW07 ..... 00000000
SW08 ..... 00000000
SW09 ..... 00000000
SW10 ..... 00000000
SW11 ..... 00000000
SW12 ..... 00000011
SW13 ..... 00000000
SW14 ..... 00000000
SW15 ..... 00000000
SW16 ..... 00000000
SW17 ..... 00000000
SW18 ..... 00000000
SW19 ..... 00011000
SW20 ..... 00000000
SW21 ..... 00000000
SW22 ..... 00000000
SW23 ..... 00000000
SW24 ..... 00000000
SW25 ..... 00000000
SW26 ..... 00100000
SW27 ..... 00000000
SW28 ..... 00000000
SW29 ..... 00000000
SW30 ..... 00000000
SW31 ..... 00000000
SW32 ..... 00000000
SW33 ..... 00000000
SW34 ..... 00000000
SW35 ..... 00000000
SW36 ..... 00000000
SW37 ..... 00000000
SW38 ..... 00000000
SW39 ..... 00000000
SW40 ..... 00000000
SW41 ..... 00000000
SW42 ..... 00000000
SW43 ..... 00000000
SW44 ..... 00000000
SW45 ..... 00000000
SW46 ..... 00000000
SW47 ..... 00000000
SW48 ..... 00000000
SW49 ..... 00000000
SW50 ..... 00000000

#MENU
01: ..... 0
02: ..... 0
03: ..... 0
04: ..... 0
05: ..... 0

```

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### 5.7.3 System Dump List

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

- System Dump List

Use it to check the history of communications, both successful and error.

| 06/30 2005 19:18 |                     | 06/18 2005 |            |            |           | 001 |   |
|------------------|---------------------|------------|------------|------------|-----------|-----|---|
| CLEAR DATE       |                     |            |            |            |           |     |   |
| [1]              | TX = 7              |            |            |            |           |     |   |
| [3]              | A4 = 0              | B4 = 0     | A3 = 0     |            |           |     |   |
| [2]              | RX = 0              |            |            |            |           |     |   |
| [3]              | A4 = 7              | B4 = 0     | A3 = 0     | LTR = 0    | LGL = 0   |     |   |
|                  | 33600 = 0           | 31200 = 0  | 28800 = 0  | 26400 = 0  | 24000 = 0 |     |   |
|                  | 21600 = 0           | 19200 = 0  | 16800 = 0  | 14400 = 0  | 12000 = 0 |     |   |
| [4]              | 9600 = 0            | 7200 = 0   | 4800 = 0   | 2400 = 0   |           |     |   |
|                  | 14400 = 0           | 12000 = 0  | TC9600 = 0 | TC7200 = 0 |           |     |   |
|                  | 14400 = 0           | 12000 = 0  |            |            |           |     |   |
| [5]              | 9600 = 7            | 7200 = 0   | 4800 = 0   | 2400 = 0   |           |     |   |
|                  | STD = 2             | FINE = 5   | SUPER = 0  | ULTRA = 0  |           |     |   |
| [6]              | MH = 0              | MR = 0     | MMR = 7    | JBIG = 0   | JPEG = 0  |     |   |
| [7]              | G3 = 0              | ECM = 7    |            |            |           |     |   |
| [8]              | PRINT TTL = 63 / 63 |            |            |            |           |     |   |
|                  | C-S-TTL = 0 / 0     |            |            |            |           |     |   |
|                  | K-S-TTL = 51 / 51   |            |            |            |           |     |   |
|                  | READ SCAN = 43 / 43 |            |            |            |           |     |   |
| [9]              | #000                | 0          | 0          | 0          | 0         | 0   | 0 |
|                  |                     | 0          | 0          | 0          | 0         | 0   | 0 |
|                  |                     | 0          | 0          | 0          | 0         | 0   | 0 |
|                  |                     | 0          | 0          | 0          | 0         | 0   | 0 |
|                  |                     | 0          | 0          | 0          | 0         | 0   | 0 |
|                  |                     | 0          | 0          | 0          | 0         | 0   | 0 |
|                  |                     | 0          | 0          | 0          | 0         | 0   | 0 |
|                  |                     | 0          | 0          | 0          | 0         | 0   | 0 |
|                  |                     | 0          | 0          | 0          | 0         | 0   | 0 |
|                  |                     | 0          | 0          | 0          | 0         | 0   | 0 |
|                  |                     | 0          | 0          | 0          | 0         | 0   | 0 |

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- \*1: TX, number of total pages transmission.
- \*2: Total number of pages transmitted/received according to original size.
- \*3: RX, number of total pages reception.
- \*4: Total number of pages transmitted and received for each modem speed
- \*5: Total number of pages transmitted/received in connection with different modem speeds (Standard, Fine, Super Fine, Ultra Fine).
- \*6: Total number of pages transmitted and received for each coding method
- \*7: Total number of pages transmitted and received in each mode
- \*8: Total number of pages printed/scanned
- \*9: Total number of occurrences for error code

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| Indication sample | 1                | 7                | 3                | 0 | 0 |
|-------------------|------------------|------------------|------------------|---|---|
| ##280             | ##280            | ##281            | ##282            |   |   |
|                   | number of errors | number of errors | number of errors |   |   |

It provides error information on the 3 most recent communications.

```

2003 09/02 TUE 12:00 FAX
#001
*1 ----- #1 LATEST #000
*2 ----- START TIME 09/02 10:00
*3 ----- OTHER PARTY 12345678
*4 ----- MAKER CODE 10001000
*5 ----- MACHINE CODE 0100001 00000000
RCV V.S FRAME E0 81 85 D4 90 7E 00 00
SYMBOL RATE 3429 baud
DATA RATE 28800 bps [V.34]
TX LVL REDUCTION 0
ERR ABCODE 00
ERR SECTXB 00
ERR SECRXB 00
*6 ----- Rx : (bit 1) 00000100 01110111 01011111 00100011 00000001 10101001 00000001 (bit 56)
(bit 57) 00000001 00000001 00000100 00000000 00000000 00000000 (bit 96)
*7 ----- Tx : (bit 1) 00000000 01000010 00011111 00100001 00000001 00000001 00000001 (bit 56)
(bit 57) 00000001 00000001 00000100 00000000 00000000 00000000 (bit 96)
*8 -----
Rx : NSF CSI DIS CFR MCF MCF
Tx : NSS TSI DCS PIX-288 PPS-NUL PIX-288 PPS-NUL PIX-288 PPS-NUL
Rx : MCF MCF MCF
Tx : PIX-288 PPS-NUL PIX-288 PPS-EOP DCN
#2 #000
START TIME 09/02 09:30
OTHER PARTY 12345678
MAKER CODE 10001000
MACHINE CODE 0100001 00000000
RCV V.S FRAME E0 81 85 D4 90 7E 00 00
SYMBOL RATE 3429 baud
DATA RATE 28800 bps [V.34]
TX LVL REDUCTION 0
ERR ABCODE 00
ERR SECTXB 00
ERR SECRXB 00
Rx : (bit 1) 00000100 01110111 01011111 00100011 00000001 10101001 00000001 (bit 56)
(bit 57) 00000001 00000001 00000100 00000000 00000000 00000000 (bit 96)
Tx : (bit 1) 00000000 01000010 00011111 00100001 00000001 00000001 00000001 (bit 56)
(bit 57) 00000001 00000001 00000100 00000000 00000000 00000000 (bit 96)
Rx : NSF CSI DIS CFR MCF MCF
Tx : NSS TSI DCS PIX-288 PPS-NUL PIX-288 PPS-NUL PIX-288 PPS-NUL
Rx : MCF MCF MCF
Tx : PIX-288 PPS-NUL PIX-288 PPS-EOP DCN
#3 OLDEST #000
START TIME 09/02 09:00
OTHER PARTY 12345678
MAKER CODE 10001000
MACHINE CODE 0100001 00000000
RCV V.S FRAME E0 81 85 D4 90 7E 00 00
SYMBOL RATE 3429 baud
DATA RATE 28800 bps [V.34]
TX LVL REDUCTION 0
ERR ABCODE 00
ERR SECTXB 00
ERR SECRXB 00

```

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- \*1: service error code.
- \*2: START TIME, date and time (in 24-hr notation).
- \*3: OTHER PARTY, telephone number sent by the other party.
- \*4: MAKER CODE, manufacturer code.
- \*5: MACHINE CODE, model code.
- \*6: bit 1 through bit 96 of DIS, DCS, or DTC that has been received.
- \*7: bit 1 through bit 96 of DIS, DCS, or DTC that has been transmitted.
- \*8: RX, procedural signal received; TX, procedural signal transmitted.

### 5.7.4 Counter List

LaserBase MF6530 // LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL // LaserBase MF6580PL

Explanation: Maintenance/supplies counter output.

(For more detailed information about the maintenance/supplies counter output, execute service mode > Display counter information > Counters.)

### 5.7.5 Error Log List

LaserBase MF6530 // LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL // LaserBase MF6580PL

| 07/12/2005 13:07 FAX       |     | 001   |       |       |     |      |      |        |      |    |
|----------------------------|-----|-------|-------|-------|-----|------|------|--------|------|----|
| *** JAM/ERR LOG REPORT *** |     |       |       |       |     |      |      |        |      |    |
| [1]                        | [2] | [3]   | [4]   | [5]   | [6] | [7]  | [8]  | [9]    | [10] |    |
| JAM                        | 01  | 04/12 | 12:17 | 20:03 | 4   | 1    | 0012 | 000026 | 1    | A4 |
|                            | 20  | 04/12 | 12:17 | 20:03 | 4   | 1    | 0012 | 000026 | 1    | A4 |
| [1]                        | [2] | [3]   | [4]   | [5]   | [6] | [7]  | [8]  |        |      |    |
| ERR                        | 01  | 04/12 | 12:17 | 15:36 | 3   | 0010 | 0000 | 000691 |      |    |
|                            | 20  | 04/12 | 12:17 | 15:36 | 3   | 0010 | 0000 | 000691 |      |    |

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| Jam history description (JAM) |                       |  |  |
|-------------------------------|-----------------------|--|--|
|                               | Item                  | Explanation  |  |
| [1]                           | Number                | The larger the number of a jam, the more recently it has occurred. |  |
| [2]                           | Jam date              | Date of jam occurrence   |  |
| [3]                           | Jam time              |  |  |
| [4]                           | Jam recovery time     |  |  |
| [5]                           | Location              | 3: Host machine, 4: ADF, 5: Finisher                               |  |
| [6]                           | Occurrence category   | 0: Host machine, 1: ADF, 2: Finisher                               |  |
| [7]                           | Jam code              | Code   | Jam cause                              |
|                               | Host machine          | 0104   | Pickup assembly delay jam              |
|                               |                       | 0208   | Pickup assembly stationary jam         |
|                               |                       | 010c   | Delivery assembly jam                  |
|                               |                       | 0210   | Delivery stationary jam                |
|                               |                       | 0214   | Host machine retention paper jam       |
|                               |                       | 1118   | Door open jam                          |
|                               | ADF                   | 0000   | Unknown jam                            |
|                               |                       | 0007   | Initial stationary                     |
|                               |                       | 0008   | Read sensor delay jam                  |
|                               |                       | 0009   | Read sensor stationary jam             |
|                               |                       | 000a   | Paper absence (Pull out the document.) |
|                               | 0010                  | Pickup NG  |  |
| [8]                           | Total counter display |  |  |
| [9]                           | Pickup stage position | 0: Manual feed tray, 1: Cassette 1, 2: Cassette 2                  |  |
| [10]                          | Paper size            |  |  |

| Error history description (ERR) |                     |   |
|---------------------------------|---------------------|---|
|                                 | Item                | Explanation   |
| [1]                             | Number              | The larger the number of an error, the more recently it has occurred.                                     |
| [2]                             | Error date          | Date of error occurrence  |
| [3]                             | Error time          |   |
| [4]                             | Error recovery time |   |
| [5]                             | Location            | 3: Main unit  |
| [6]                             | Error code          | Error code (4-digit code; for a definition of the code, see the "Error Code" Chapter.)                    |
| [7]                             | Detail code         | Detail code of the error code (4-digit code; for a definition of the code, see the "Error Code" Chapter.) |

| Error history description (ERR) |                       |             |
|---------------------------------|-----------------------|-------------|
|                                 | Item                  | Explanation |
| [8]                             | Total counter display |             |

### 5.7.6 Spec List

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

| 07/12/2005 13:07 FAX |                          | 001   |                   |
|----------------------|--------------------------|-------|-------------------|
| [1]                  | TYPE                     | ----- | U. S. A           |
| [2]                  | LBP SPEED                | ----- | 22cpm             |
| [3]                  | TOTAL MEMORY             | ----- | 128MB             |
| [4]                  | MAIN                     | ----- | WLaa-03-13        |
|                      | OPTION                   | ----- | WLaa-03-13        |
|                      | BOOT                     | ----- | WLaa-03-13        |
|                      | ECONT                    | ----- | 0509              |
|                      | OPT-CAS 1                | ----- | 0000              |
|                      | OPT-CAS 2                | ----- | 0000              |
|                      | OPT-CAS 3                | ----- | 0000              |
|                      | OPT-DUP                  | ----- | 0000              |
|                      | OPT-FIN                  | ----- | 0000              |
| [5]                  | ACTIBAT FUNCTION         | ----- |                   |
|                      | BDL-IMAGE (1200)         | ----- | BDL               |
|                      | FAX                      | ----- | ON                |
|                      | NETWORK                  | ----- | ON                |
|                      | PCL                      | ----- | ON                |
|                      | PC-SCAN                  | ----- | ON                |
|                      | BW-SEND                  | ----- | OFF               |
|                      | CL-SEND                  | ----- | OFF               |
|                      | PAF                      | ----- | OFF               |
|                      | BDL-IMAGE (600)          | ----- | ON                |
| [6]                  | SOFT-ID PRM              | ----- |                   |
|                      | TYPE                     | ----- | 0 : NONE          |
|                      | OPTION/ENABLE SW         | ----- |                   |
|                      | BIT 00: BDL-IMAGE (1200) | ----- | ON / OFF          |
|                      | BIT 01: FAX              | ----- | ON / OFF          |
|                      | BIT 02: NETWORK          | ----- | ON / OFF          |
|                      | BIT 03: PCL              | ----- | ON / OFF          |
|                      | BIT 04: PC-SCAN          | ----- | OFF / OFF         |
|                      | BIT 05: BW-SEND          | ----- | OFF / OFF         |
|                      | BIT 06: CL-SEND          | ----- | OFF / OFF         |
|                      | BIT 07: PAF              | ----- | OFF / OFF         |
|                      | BIT 08: BDSS             | ----- | ON / OFF          |
|                      | BIT 09: BDL-IMAGE (600)  | ----- | ON / OFF          |
|                      | BIT 10: COUNTER          | ----- | ON / OFF          |
|                      | BODY No.                 | ----- | BFDxxxxx          |
|                      | ENGINE CODE              | ----- | 20000016          |
|                      | SIZE TYPE                | ----- | 0 : NONE          |
| [7]                  | TOTAL                    | ----- |                   |
|                      | TTL                      | ----- | 000688            |
|                      | COPY                     | ----- | 000685            |
|                      | FAX-PRT                  | ----- | 000000            |
|                      | PDL-PRT                  | ----- | 000000            |
|                      | RPT-PRT                  | ----- | 000000            |
| [8]                  | READ ADJ PRM             | ----- |                   |
|                      | 026:                     | ----- | 0022              |
|                      | 031:                     | ----- | 0000              |
|                      | 032:                     | ----- | 0115              |
|                      | 033:                     | ----- | 0032              |
|                      | 034:                     | ----- | 0032              |
|                      | 041:                     | ----- | 0000              |
|                      | 042:                     | ----- | 0219              |
|                      | 043:                     | ----- | 0045              |
|                      | 044:                     | ----- | 0045              |
|                      | 045:                     | ----- | 0045              |
|                      | 046:                     | ----- | 0045              |
|                      | 047:                     | ----- | 0032              |
|                      | 048:                     | ----- | 0032              |
|                      | 054:                     | ----- | 0032              |
|                      | 213:                     | ----- | 0000              |
|                      | 214:                     | ----- | 0000              |
|                      | 215:                     | ----- | 0000              |
|                      | WRITE ADJ PRM            | ----- |                   |
|                      | 031:                     | ----- | 0050              |
|                      | 032:                     | ----- | 0050              |
|                      | 033:                     | ----- | 0050              |
|                      | 034:                     | ----- | 0100              |
|                      | 035:                     | ----- | 0100              |
|                      | 036:                     | ----- | 0100              |
|                      | 037:                     | ----- | 0100              |
|                      | 038:[]                   | ----- | 0100              |
|                      | 039:                     | ----- | 0100              |
| [9]                  | OPTYION ROM              | ----- | 16MB              |
| [10]                 | USB MEMORY               | ----- | OFF               |
| [11]                 | DELIVERY FULL SENSOR 1   | ----- | ON                |
| [12]                 | DELIVERY FULL SENSOR 2   | ----- | OFF               |
| [13]                 | USB SERIAL No.           | ----- | 0051J9AE904       |
| [13]                 | MAC ADDRESS              | ----- | 00 00 85 51 60 1C |
| [14]                 | BACKUP BATTERY           | ----- | OFF               |

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- [1] Type setting
- [2] Print speed
- [3] Memory size
- [4] ROM version (MAIN/BOOT/ECONT/option cassette/duplex unit/finisher)
- [5] Activation function ON/OFF
- [6] Soft ID information
- [7] Total counter (TOTAL/COPY/FAX/PDL/REPORT record counts)
- [8] Adjustment data (factory scan/record adjustment values)
- [9] Option ROM availability
- [10] USB memory availability
- [11] No. 1/No. 2 paper full sensor sensor availability
- [12] USB serial number
- [13] MAC address

[14] Backup battery availability

### 5.7.7 Service Label

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

Enter the value given in the service label affixed to the rear cover when it has been replaced with a new one.

| #PRINT>#PRINT NUMERIC |         |   |   | #SCAN>#SCAN NUMERIC |     |         |   |   |   |
|-----------------------|---------|---|---|---------------------|-----|---------|---|---|---|
|                       | FACTORY | 1 | 2 | 3                   |     | FACTORY | 1 | 2 | 3 |
| 031                   | 50      |   |   |                     | 026 |         |   |   |   |
| 032                   | 50      |   |   |                     | 031 |         |   |   |   |
| 033                   | 50      |   |   |                     | 032 |         |   |   |   |
| 034                   | 100     |   |   |                     | 033 |         |   |   |   |
| 035                   | 100     |   |   |                     | 034 |         |   |   |   |
| 036                   | 100     |   |   |                     | 041 |         |   |   |   |
| 037                   | 100     |   |   |                     | 042 |         |   |   |   |
| 038                   | 100     |   |   |                     | 043 |         |   |   |   |
| 039                   | 100     |   |   |                     | 044 |         |   |   |   |
|                       |         |   |   |                     | 045 |         |   |   |   |
|                       |         |   |   |                     | 046 |         |   |   |   |
|                       |         |   |   |                     | 047 |         |   |   |   |
|                       |         |   |   |                     | 048 |         |   |   |   |
|                       |         |   |   |                     | 054 |         |   |   |   |
|                       |         |   |   |                     | 213 |         |   |   |   |
|                       |         |   |   |                     | 214 |         |   |   |   |
|                       |         |   |   |                     | 215 |         |   |   |   |
| body No: BFDxxxxx     |         |   |   |                     |     |         |   |   |   |

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## 5.8 Data Initialization Mode (CLEAR)

### 5.8.1 Clear

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

| Group           | Item          | Explanation  |
|-----------------|---------------|--|
| TEL & USER DATA |               | Clears all user-registered and -set areas of telephone registration data and user data. (Telephone registration refers to the registration of codes on one-touch dialing, abbreviated dialing, and group dialing.) |
| SERVICE DATA    |               | Clears the system dump list, except for counters and clear dates.  |
| COUNTER         |               | Clears the maintenance counter, parts counter and mode-specific counters. Initializes the counter (numerator) in the system dump list.   |
| TYPE            |               | Initializes user data and service data to suit specified destination settings.   |
| SOFT-CNT        |               | Not used   |
| HST             | ACTIVITY      | Initializes the activity report  |
|                 | ACCOUNT       | Clears print histories.  |
|                 | JAM           | Clears the jam history.  |
|                 | ERR           | Clear the error (error code) history.  |
|                 | ALARM         | Clears the alarm history.  |
| CARD            |               | Not used   |
| ERR             | E355          | Not used   |
|                 | E719          | Not used   |
| PWD             |               | Clears the system administrator's password.  |
| FILE SYSTEM     |               | Not used   |
| FORMAT*1        | USB MEMORY    | Format the USB memory. (This mode is used when the USB memory error is damaged and E744 occurs.)   |
|                 | LICENSE DRIVE | Not used   |
| ALL             |               | Clears user and service data (except for some scan parameters and print parameters), and the counter setting/registration data in the system dump list, except for the print count.                                |

## 5.9 Test Mode (TEST)

### 5.9.1 Overview

#### 5.9.1.1 Outline

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

Test mode must be executed by keeping track the flow of menu items appearing on the LCD. Menu items in test mode are organized into seven blocks as described below. Numerals enclosed in parentheses denote a numeric keypad key to be pressed each.

#### 1. D-RAM test ((1) D-RAM)

Checks to see if data can be correctly written to and read from D-RAM.

#### 2. Scan test ((2) SCAN TEST)

Used to adjust contact sensor output and the position at which a document fed from the ADF is scanned.

#### 3. Print test ((3) PRINT TEST)

Used to generate service test patterns.

#### 4. Modem test ((4) MODEM TEST)

Performs relay actuation, modem DTMF and tonal signal transmission/reception tests.

#### 5. Aging test ((5) AGING TEST)

Not used.

#### 6. Function test ((6) FUNCTION TEST)

Used to verify the operations of microswitches, sensors, speakers and ADF functions.

#### 7. Roller cleaning mode ((0) ROLLER CLEAN)

Used to clean the delivery roller or ADF pickup roller by idling them.

### 5.9.1.2 Test Mode Menu List

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

#### Test mode menu list

To invoke test mode, follow these steps:

- 1) Enter service mode.  
Press the operation panel user mode key, 2 key, 8 key and user mode key in this order.
  - 2) Press the operation panel arrow keys to show "TEST MODE."
  - 3) Press the OK key.
- To exit test mode, press the user mode key to return to standby mode.

| Numerals enclosed in parentheses denote a numeric keypad key to be pressed each. |                                 |        |        |        |                                    |
|--|---------------------------------|--------|--------|--------|------------------------------------|
| Group  | Subgroup                        | Item 1 | Item 2 | Item 3 | Explanation                        |
| TEST MODE [1] - [9], [#]   |                                 |        |        |        |                                    |
| (1) DRAM [1] - [2]   |                                 |        |        |        |                                    |
|  | (1) D-RAM TEST                  |        |        |        | D-RAM data check                   |
|  | (2) D-RAM TEST                  |        |        |        | Write/read check                   |
|  | (2) D-RAM TEST                  |        |        |        | Read check                         |
| (2) SCAN TEST [1] - [8]  |                                 |        |        |        |                                    |
|  | (1) SHADING                     |        |        |        | Automatic gain adjustment          |
|  | (3) SHEET POS ADJ               |        |        |        | CS position adjustment             |
|  | (4) TRASH DETECT                |        |        |        | Dust detection                     |
|  | (5), (6), (9), (*)              |        |        |        | Not used                           |
| (3) PRINT TEST [1] - [9]   |                                 |        |        |        |                                    |
|  | (1)                             |        |        |        | Not used                           |
|  | (2)                             |        |        |        | All-black output                   |
|  | (3)                             |        |        |        | Not used                           |
|  | (4)                             |        |        |        | Back belt output                   |
|  | (5), (6), (7), (8), (9), (*)    |        |        |        | Not used                           |
| (4) MODEM TEST [1] - [9]   |                                 |        |        |        |                                    |
| (1) RELAY TEST [1] - [2]   |                                 |        |        |        |                                    |
|  | (1) RELAY TEST 1                |        |        |        | NCU relay (and switch) ON/OFF test |
|  | (2) RELAY TEST 2                |        |        |        | 230 V common NCU test              |
| (2) FREQ TEST [0] - [6]  |                                 |        |        |        |                                    |
|  | (0) FREQ TEST 462Hz             |        |        |        | Frequency test                     |
|  | (1) FREQ TEST 1100Hz            |        |        |        |                                    |
|  | (2) FREQ TEST 1300Hz            |        |        |        |                                    |
|  | (3) FREQ TEST 1500Hz            |        |        |        |                                    |
|  | (4) FREQ TSST 1650Hz            |        |        |        |                                    |
|  | (5) FREQ TEST 1850Hz            |        |        |        |                                    |
|  | (6) FREQ TEST 2100Hz            |        |        |        |                                    |
| (4) G3 SIGNAL TX TEST [0] - [8]  |                                 |        |        |        |                                    |
|  | (0) G3 SIGNAL TX TEST 300bps    |        |        |        | G3 signal transmission test        |
|  | (1) G3 SIGNAL TX TEST 2400bps   |        |        |        |                                    |
|  | (2) G3 SIGNAL TX TEST 4800bps   |        |        |        |                                    |
|  | (3) G3 SIGNAL TX TEST 7200bps   |        |        |        |                                    |
|  | (4) G3 SIGNAL TX TEST 9600bps   |        |        |        |                                    |
|  | (5) G3 SIGNAL TX TEST TC7200bps |        |        |        |                                    |
|  | (6) G3 SIGNAL TX TEST TC9600bps |        |        |        |                                    |
|  | (7) G3 SIGNAL TX TEST 12000bps  |        |        |        |                                    |
|  | (8) G3 SIGNAL TX TEST 14400bps  |        |        |        |                                    |
| (5) DTMF TEST [0] - [9], *, #  |                                 |        |        |        |                                    |
|  | (0) G3 SIGNAL TX TEST 300bps    |        |        |        | DTMF transmission test             |
|  | (1) G3 SIGNAL TX TEST 2400bps   |        |        |        |                                    |
|  | (2) G3 SIGNAL TX TEST 4800bps   |        |        |        |                                    |
|  | (3) G3 SIGNAL TX TEST 7200bps   |        |        |        |                                    |
|  | (4) G3 SIGNAL TX TEST 9600bps   |        |        |        |                                    |
|  | (5) G3 SIGNAL TX TEST TC7200bps |        |        |        |                                    |
|  | (6) G3 SIGNAL TX TEST TC9600bps |        |        |        |                                    |
|  | (7) G3 SIGNAL TX TEST 12000bps  |        |        |        |                                    |
|  | (8) G3 SIGNAL TX TEST 14400bps  |        |        |        |                                    |
|  | (9) G3 SIGNAL TX TEST TC9600bps |        |        |        |                                    |
|  | (*) G3 SIGNAL TX TEST 12000bps  |        |        |        |                                    |
|  | (#) G3 SIGNAL TX TEST 14400bps  |        |        |        |                                    |
| (6) MODEM TEST   |                                 |        |        |        |                                    |
|  | (8) G3 V.34 Tx TEST             |        |        |        | Tonal sign reception test          |
|  | (9)                             |        |        |        | V34 G3 signal transmission test    |
| (5) AGING TEST   |                                 |        |        |        |                                    |
|  |                                 |        |        |        | Not used                           |
| (6) FUNCTION TEST [1] - [9]  |                                 |        |        |        |                                    |

| Numerals enclosed in parentheses denote a numeric keypad key to be pressed each. |   |                                |  |        |  |
|--|---|--------------------------------|--|--------|--|
| Group  | Subgroup                                      | Item 1                         | Item 2                                   | Item 3 | Explanation                              |
|  | (1) FUNCTION TEST G3                          | 4800bps                        |  |        | G3 4800 bps signal transmission test     |
|  | (3) 6-3 SENSOR                                | [1] - [8]                      |  |        | Sensor checks                            |
|  | (1) SENSOR CHECK                              | 0:NORMAL 1:LATCH               |  |        |  |
|  |   | (0) SENSOR NORMAL              | [0] - [2]                                |        |  |
|  |   |                                | (0) CAS 0 REG 0 DEL 0 MULTI 0            |        |  |
|  |   |                                | (1) TONER 0 FULL 0 2ND-DEL 0000          |        |  |
|  |   |                                | (2) OP1 0000 OP2 0000 OP3 0000 PATH 0000 |        |  |
|  |   | (1) SENSOR LATCH               | [0] - [2]                                |        |  |
|  |   |                                | (0) CAS 0 REG 0 DEL 0 MULTI 0            |        |  |
|  |   |                                | (1) TONER 0 FULL 0 2ND-DEL 0000          |        |  |
|  |   |                                | (2) OP1 0000 OP2 0000 OP3 0000 PATH 0000 |        |  |
|  | (2) SWITCH CHECK                              | [0] - [1]                      |  |        |  |
|  |   | (0) CAS 0000 LOCK 0000         |  |        |  |
|  |   | (1) OP1 0000 OP2 0000 OP3 0000 |  |        |  |
|  | (3) DS ON DES of HPS ON BCVS of               |                                |  |        |  |
|  | (4) REF xxx ANT xxx  ANT-REF  xxx             |                                |  |        |  |
|  | (5) BSCT on BDAC[ A3] BDSS3-0 [ of of of of ] |                                |  |        |  |
|  | (6) NCR Sts: NCR xxxxx DPT MGN OK RDY 0101    |                                |  |        |  |
|  | (7) LAST of EXIT of REG of CVR of             |                                |  |        |  |
|  | (8) WIND1 of WIND2 of WIND3 of WIND4 of       |                                |  |        |  |
|  | (4) ADF FEED TEST                             |                                |  |        | ADF delivery operation test              |
|  | (5) BOOK FEED TEST                            |                                |  |        | Book copy operation test                 |
|  | (6) 6-6 SPEAKER FREQ:[1] VOL:[2]              |                                |  |        | Speaker volume and buzzer frequency test |
|  | (7) Operation Panel                           |                                |  |        | Operation panel key, LCD and LED test    |
|  | (8) FUNCTION TEST LAMP TEST ALL               |                                |  |        | Lamp test                                |
|  | (9) LINE TEST                                 | [1] - [3]                      |  |        | Line signal reception test               |
| (0) ROLLER CLEAN 0:PRT 1:ADF   |   |                                |  |        | Printer and ADF roller cleaning          |
|  | (0) PRT ROL CLEAN                             | Press start key                |  |        |  |
|  | (1) ADF ROL CLEAN                             | Press start key                |  |        |  |

5.9.2 DRAM Test

5.9.2.1 D-RAM Test<(1) D-RAM TEST>

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

D-RAM Test((1) D-RAM)

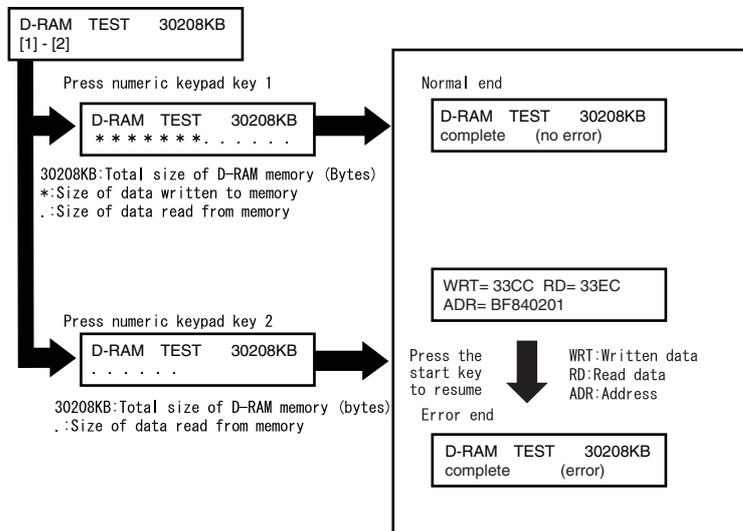
Press the numeric keypad key 1 on the test mode menu to select the D-DRAM test. Press numeric keypad keys 1 and 2 during the D-DRAM test to carry out the individual tests described below.

Numeric keypad key 1

Checks to see if data can be correctly written to and read from all areas of D-RAM (SDRAM). If an error occurs making this check, the test is aborted, with an error appearing on the touch panel (LCD).

Numeric keypad key 2

Checks to see if data can be correctly read from all areas of D-RAM (SDRAM). If an error occurs making this check, the test is aborted, with an error appearing on the touch panel (LCD).



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### 5.9.3 Scan Test

#### 5.9.3.1 Scan Test ((2) SCAN TEST)

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

##### Scan test ((2) SCAN TEST)

Press the numeric keypad key 2 on the test mode menu to select the CCD test.  
Press numeric keypad keys 1, 3 and 4 during the CCD test to carry out the individual tests described below.

Numeric keypad key 1

Corrects the LED output of the contact sensor and sets its parameters automatically. (AGC adjustment)

Numeric keypad key 3

Adjusts the document scan position (only on models with the ADF feature installed). Adjusts the position of the contact sensor for scanning documents fed from the ADF automatically.

Numeric keypad key 4

Detects trash at reader scan positions A/B/C.

Pos A: Reference read position

Pos B: About 0.5 mm inside of the roller from the reference position

Pos C: About 1.0 mm inside of the roller from the reference position

### 5.9.4 Print Test

#### 5.9.4.1 Print Test ((3) PRINT TEST)

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

##### Print test ((3) PRINT TEST)

Press the numeric keypad key 3 on the test mode menu to select the print test.

Press numeric keypad keys 2 and 4 during the print test to generate test patterns as described below. Two kinds of service test patterns are available. Other test patterns are reserved for factory/development purposes.

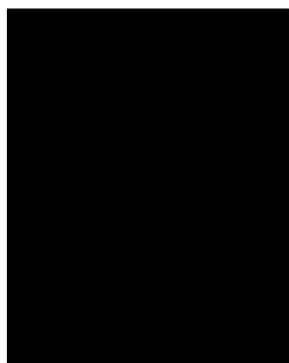
Numeric keypad key 2

(2) BLACK: All-black output

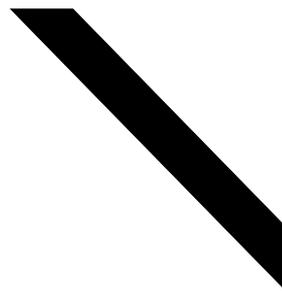
Numeric keypad key 4

(4) ENDURANCE: Black belt output

To cancel test printing, press the stop key.



Use it to make sure that the print pattern does not have white lines or uneven image.



Use it to make sure that the print pattern does not have contraction/elongation of an image or dirt/black lines.

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### 5.9.5 Modem Test

#### 5.9.5.1 MODEM Test ((4) MODEM TEST)

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

##### MODEM test((4) MODEM TEST)

These tests test modem and NCU transmission and reception. The modem tests check whether signals are sent correctly from the modem by comparing the sound of the signals from the speaker with the sounds from a normal modem.

End this test by pressing the Stop key.

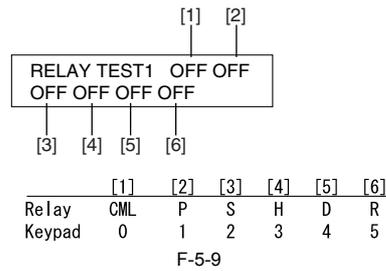
| Keypad | Type                             | Description   |
|--------|----------------------------------|---|
| 1      | Relay test                       | Use it to turn on/off a selected relay to execute a switch-over test  |
| 2      | Frequency test                   | The modem sends tonal signals from the modular jack and the speaker.  |
| 4      | G3 signal transmission test      | The modem sends G3 signals from the modular jack and the speaker.   |
| 5      | DTMF signal reception test       | Use it to generate the DTMF signal coming from the modem using the telephone line terminal and the speaker.   |
| 6      | Tonal signal reception test      | Use it to monitor a specific frequency and the DTMF signal received from the telephone line terminal by causing them to be indicated on the LCD (i.e., the presence/absence as detected). The reception signal is generated by the speaker. |
| 8      | V.34 G3 signal transmission test | The modem sends V.34 G3 signals from the modular jack and the speaker.  |

##### Relay Test

Press '1' or '2' on the keypad on the Modem test menu to select relay test mode. Use the keypad to operate the various relays of the NCU. '2' on the keypad is used for 230V machine.

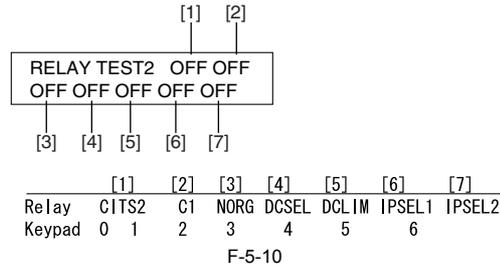
Numeric keypad key 1

The input key and relay are shown below:



Numeric keypad key 2

The input key and relay are shown below:



The touch panel (LCD) is turned on or off in relation to the transmission of the relay operation signal as is operated on the keypad; for this reason, you cannot use the touch panel (LCD) to check a fault on a single relay.

**Frequency Test**

A press on '2' on the keypad from the MODEM test menu selects the frequency test.

In this test, signals of the following frequencies from the modem are transmitted using the telephone line terminal and the speaker. To select a different frequency, use the keypad.

| Keypad | Frequency |
|--------|-----------|
| 1      | 462Hz     |
| 2      | 1100Hz    |
| 3      | 1300Hz    |
| 4      | 1500Hz    |
| 5      | 1650Hz    |
| 6      | 1850Hz    |
| 7      | 2100Hz    |

**MEMO:**

The frequency and the output level of individual frequencies are in keeping with the output level set in service mode.

**G3 Signal Transmission Test**

A press on '4' on the keypad from the MODEM test menu selects the G3 signal transmission test. In this test, the following G3 signals from the modem are transmitted using the telephone line terminal and the speaker. To select a different transmission speed, use the keypad.

| Keypad | Transmission speed |
|--------|--------------------|
| 0      | 300bps             |
| 1      | 2400bps            |
| 2      | 4800bps            |
| 3      | 7200bps            |
| 4      | 9600bps            |
| 5      | TC7200bps          |
| 6      | TC9600bps          |
| 7      | 12000bps           |
| 8      | 14400bps           |

**MEMO:**

The output level of individual signals is in keeping with the setting made in service mode.

**DTMF Signal Transmission Test**

A press on '5' on the MODEM test menu selects the DTMF signal transmission test. In the test, the following DTMF signals from the modem are transmitted using the telephone line terminal and the speaker. The number pressed on the keypad selects a specific DTMF signal.

**MEMO:**

The output level of individual signals is in keeping with the setting made in service mode.

**Tonal/DTMF Signal Reception Test**

A press on '6' on the keypad from the MODEM test menu selects the tonal signal/DTMF signal reception 0 test. In this signal, the tonal signal/DTMF signal received from the telephone line terminal can be checked to find out if it was detected by the modem.

#### Tonal signal reception test

```
MODEM TEST
OFF OFF OFF
```

```
OFF OFF OFF
├── changes from '0' to '1' in response to detection of a signal of 462 ± 25 Hz.
├── changes from '0' to '1' in response to detection of a signal of 1100 ± 30 Hz.
└── changes from '0' to '1' in response to detection of a signal of 2100 ± 25 Hz.
```

#### DTMF signal reception test

```
MODEM TEST
OFF OFF OFF 5
```

The received DTMF signals are indicated starting from the right using the 2nd character of the display.

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### V.34 G3 Signal Transmission Test

A press on '8' on the keypad from the MODEM test menu selects the V.34 G3 signal transmission test. The V.34 G3 signals below are sent from the modem using the modular jack and the speaker by pressing the start key. The Baud rate can be changed with the keypad, and the Speed can be changed with the left/right arrow key.

| Keypad | Baud rate |
|--------|-----------|
| 0      | 3429baud  |
| 1      | 3200baud  |
| 2      | 3000baud  |
| 3      | 2800baud  |
| 4      | 2743baud  |
| 5      | 2400baud  |

| Left/right arrow key | Transmission speed |
|----------------------|--------------------|
|                      | 2400bps            |
|                      | 4800bps            |
|                      | 7200bps            |
|                      | 9600bps            |
| <                    | 12000bps           |
|                      | 14400bps           |
|                      | 16800bps           |
|                      | 19200bps           |
|                      | 21600bps           |
| >                    | 24000bps           |
|                      | 26400bps           |
|                      | 28800bps           |
|                      | 31200bps           |
|                      | 33600bps           |

## 5.9.6 Faculty Test

### 5.9.6.1 FUNCTION TEST <(6) FUNCTION TEST>

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

#### Function test ((6) FUNCTION TEST)

Press the numeric keypad key 6 on the test mode menu to select the function test.  
Press numeric keypad keys 1 and 3 to 9 during the function test to enter the menus listed below.

T-5-23

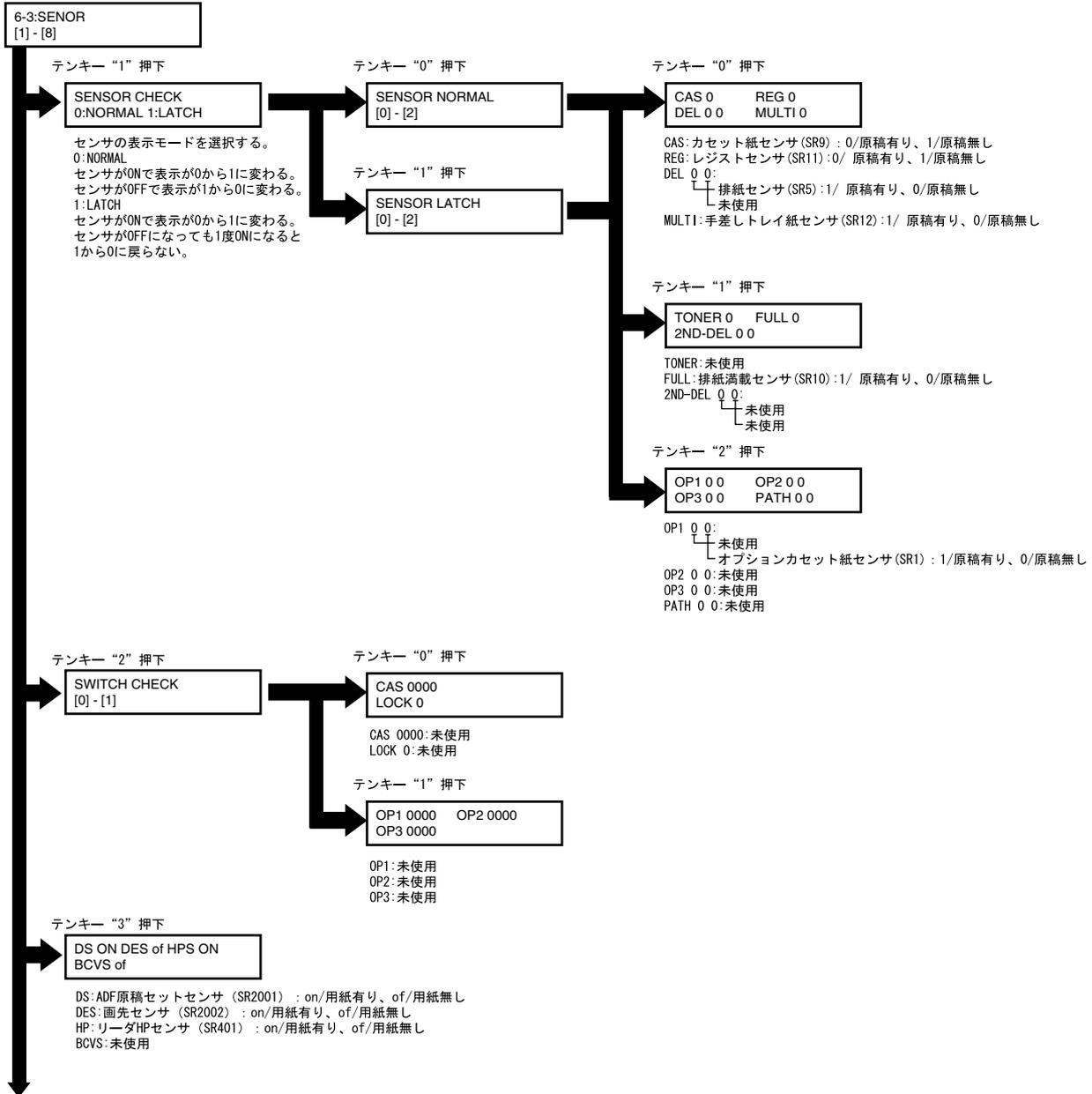
| Keypad | Item                        | Explanation  |
|--------|-----------------------------|--|
| 1      | G3 signal transmission test | Transmits 4800-bps G3 signals to a telephone line and speaker. |
| 2      | Not used                    |  |
| 3      | Sensor test                 | Sensor actuation test  |
| 4      | ADF test                    | ADF operation test   |
| 5      | Book test                   | Host machine operation test                                    |
| 6      | Speaker test                | Speaker operation test   |
| 7      | Operation panel test        | LCD, LED and control key operation test                        |
| 8      | Lamp test                   | Contact sensor illumination test                               |
| 9      | Line signal reception test  | NCU board signal sensor and frequency counter operation test   |

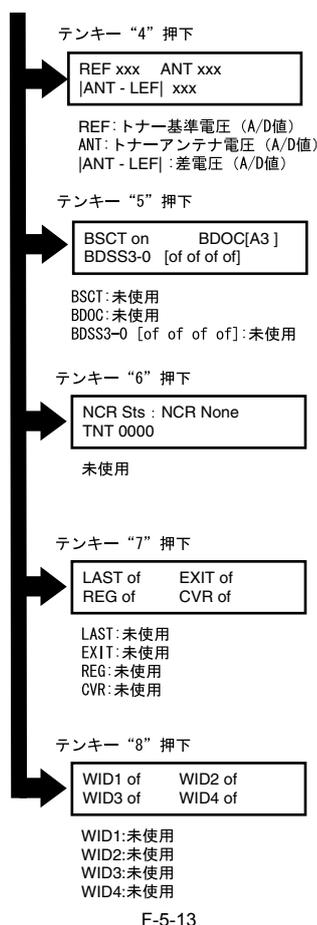
#### G3 signal transmission test (6-1: G3 480 bps Tx)

Press numeric keypad key 1 on the FUNCTION TEST menu to select the G3 signal transmission test. This test transmits 4800-bps G3 signals from the telephone line connection terminal and speaker.

**Sensor test (6-3: SENSOR)**

This mode is used to verify the status of the unit sensors from LCD indications. Press numeric keypad key 3 on the FUNCTION TEST menu to select the sensor test. LCD indications change as the associated sensors turn on and off.



**ADF feed test (ADF FEED TEST)**

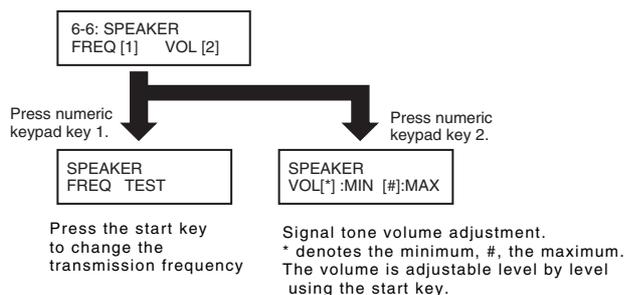
ADF operation verification mode. Press numeric keypad key 4 on the FUNCTION TEST menu to select the ADF feed test. Place a document on the document platen and press the start key to transfer the document at the speed matched to the scan resolution setting. In this test, enter a transfer speed between 500 and 2000 (mm/s) from the numeric keypad and verify the transfer speed. Select between the ON and OFF states with the left and right cursor keys to select between single-sided document feed (OFF) and double-sided document feed (ON).

**Book feed test (6-5: BOOK FEED TEST)**

Performs a book feed operation with a specified magnification and in a specified size.

**Speaker test (6-6: SPEAKER)**

Speaker operation verification mode. Press numeric keypad key 6 on the FUNCTION TEST menu to select the speaker test. In this test, the speaker generates tonal signals at 100 Hz intervals, from 200 Hz to 5 kHz, in varying sound volumes. Signal output from the speaker is thus verified.



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**Operation panel test (6-7: OPERATION PANEL)**

Operation panel operation verification mode. Press numeric keypad key 7 on the FUNCTION TEST menu to select the OPERATION PANEL test menu. Functions that can be verified from this menu are listed below.

**- LCD test**

Start the OPERATION PANEL test by pressing the start key. The LCD test is carried out first, displaying all-H characters. Press the start key once again to produce a total black display.

**- LED lamp test**

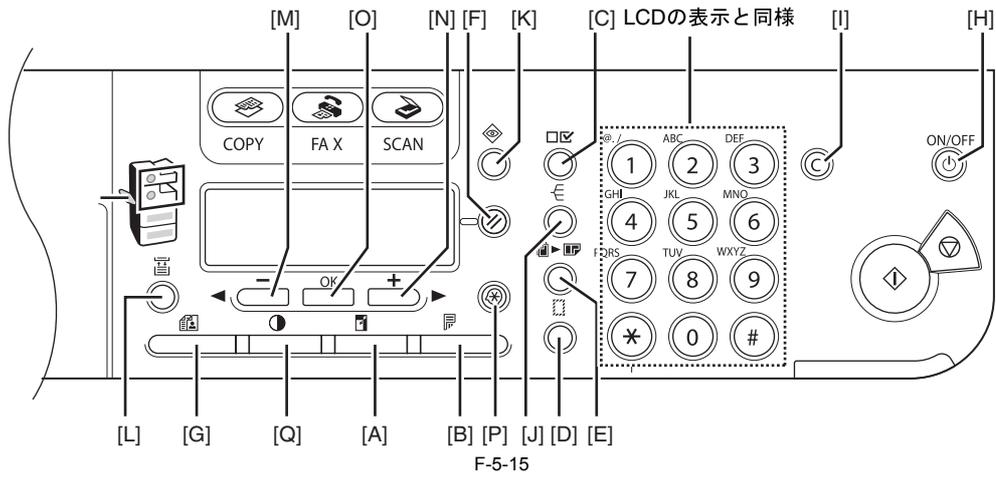
Press the start key after the LCD test to select the LCD lamp test, turning on all lamps on the operation panel.

**- Operation key test**

Press the start key after the LCD lamp test to select operation key test (1). The test succeeds if the characters appearing in the LCD are erased when the corresponding keys are pressed.

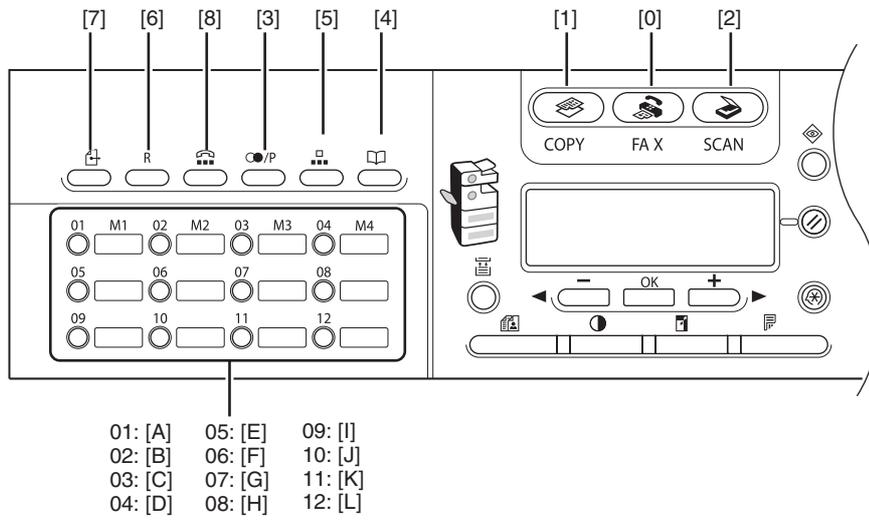
When the entire character display is erased, operation key test (2) launches (only on models with the FAX feature installed). As in (1), the test succeeds if the characters appearing in the LCD are erased when the corresponding keys are pressed.

**Operation key test (1) correspondence diagram**



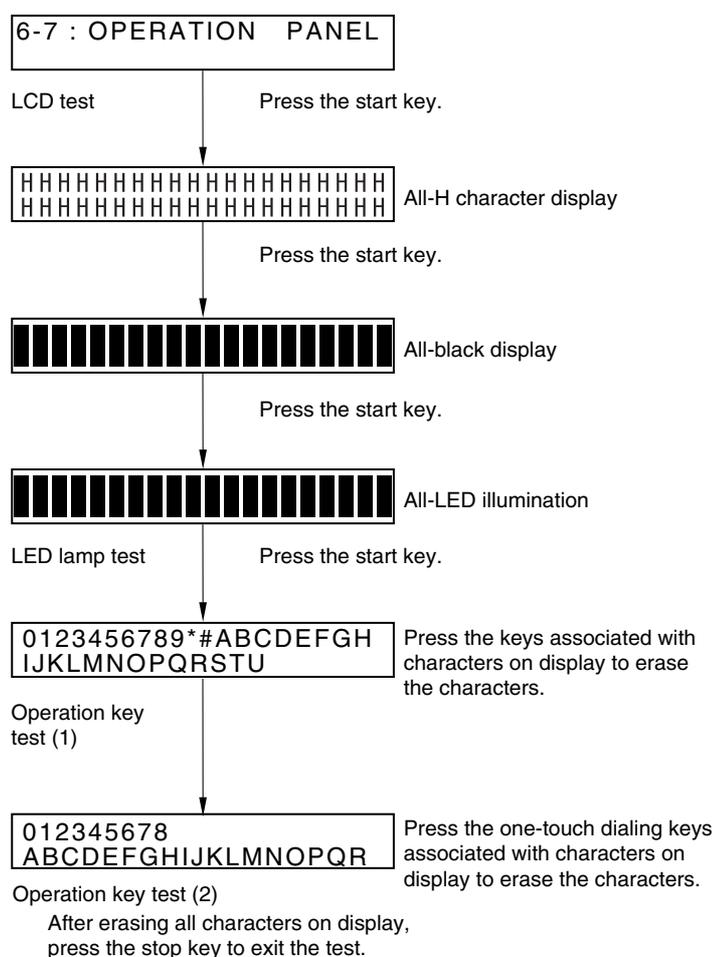
F-5-15

Operation key test (2) correspondence diagram



F-5-16

The flow of operation panel testing is shown below.



F-5-17

**Line signal reception test (9: LINE DETECT)**

Press numeric keypad key 9 on the FACULTY menu to select the line signal reception test. In this test, verify the successful operations of the NCU signal sensor and the frequency counter. Menu 1 detects the CI state, while menu 3 detects the CNG signal.

**Test menu 1**

Press numeric keypad key 1 on the LINE DETECT menu to select test menu 1. When CI is detected on the telephone line connection terminal, the LCD display changes from OFF to ON, indicating the received frequency. The LCD also displays the on-hook or off-hook state of an external telephone set as detected. The LCD displays, from left to right, CI, CI frequency, hook port and FC with indications of 1:ON and 0:OFF.

**Test menu 2**

Press numeric keypad key 2 on the LINE DETECT menu to select test menu 2. When the CNG signal is detected on the telephone line connection terminal, the LCD display changes from OFF to ON, indicating the received frequency. The LCD displays the status of CML, CNG and FED detection, from left to right, with ON/OFF indications. Numeric keypad key 2 turns on the CML relay to detect CNG.

**Test menu 3**

Press numeric keypad key 3 on the LINE DETECT menu to select test menu 3. When the CNG signal is detected on the telephone line connection terminal, the LCD display changes from OFF to ON, indicating the received frequency. The LCD displays the status of CML, CNG and FED detection, from left to right, with ON/OFF indications. Numeric keypad key 3 turns off the CML relay to detect CNG.

**Lamp test (6-8: LINE DETECT)**

Press numeric keypad key 8 on the FACULTY menu to select the scan lamp illumination mode. The test checks to see if the scan lamp is on or not. Numeric keypad key 1 selects LAMP TEST ALL. Press the start key to turn on all scan lamps. LAMP TEST AGC is not used.

**5.9.7 Cleaning Mode****5.9.7.1 Roller cleaning mode ((0) ROLLER CLEAN)**

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

**Roller cleaning mode ((0) ROLLER CLEAN)**

Press numeric keypad key 0 in test mode to select roller cleaning mode. Press numeric keypad keys 1 and 2 during this test to enter the following menus:  
Numeric keypad key 1

Press the start key clean the ADF pickup/feed rollers by idling.

Press the stop key to exit this mode.

Numeric keypad key 2

Press the start key clean the unit transfer rollers by idling.

Press the stop key to exit this mode.



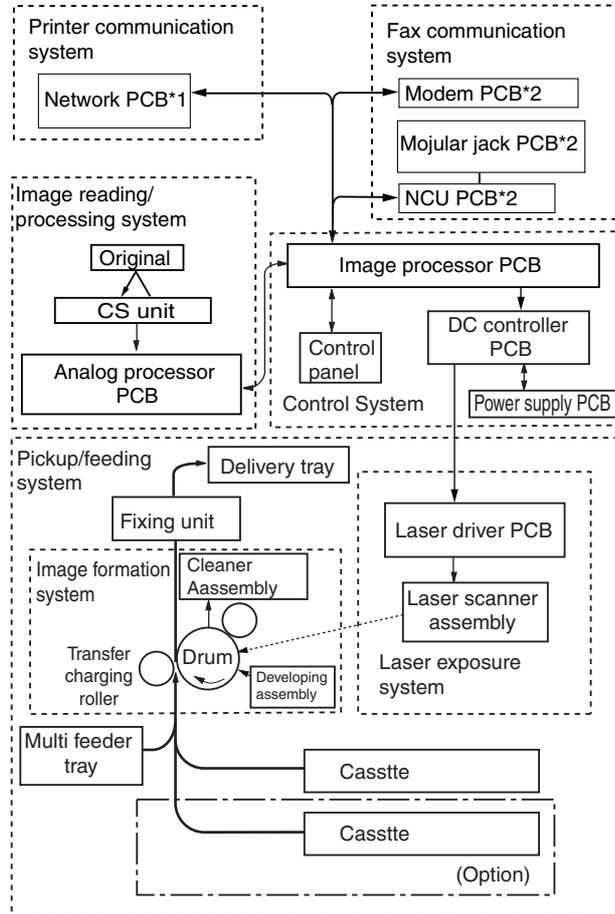
# Chapter 6 System Construction

## 6.1 Construction

### 6.1.1 Functional Construction

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

The machine may be divided into the following 7 functional blocks.



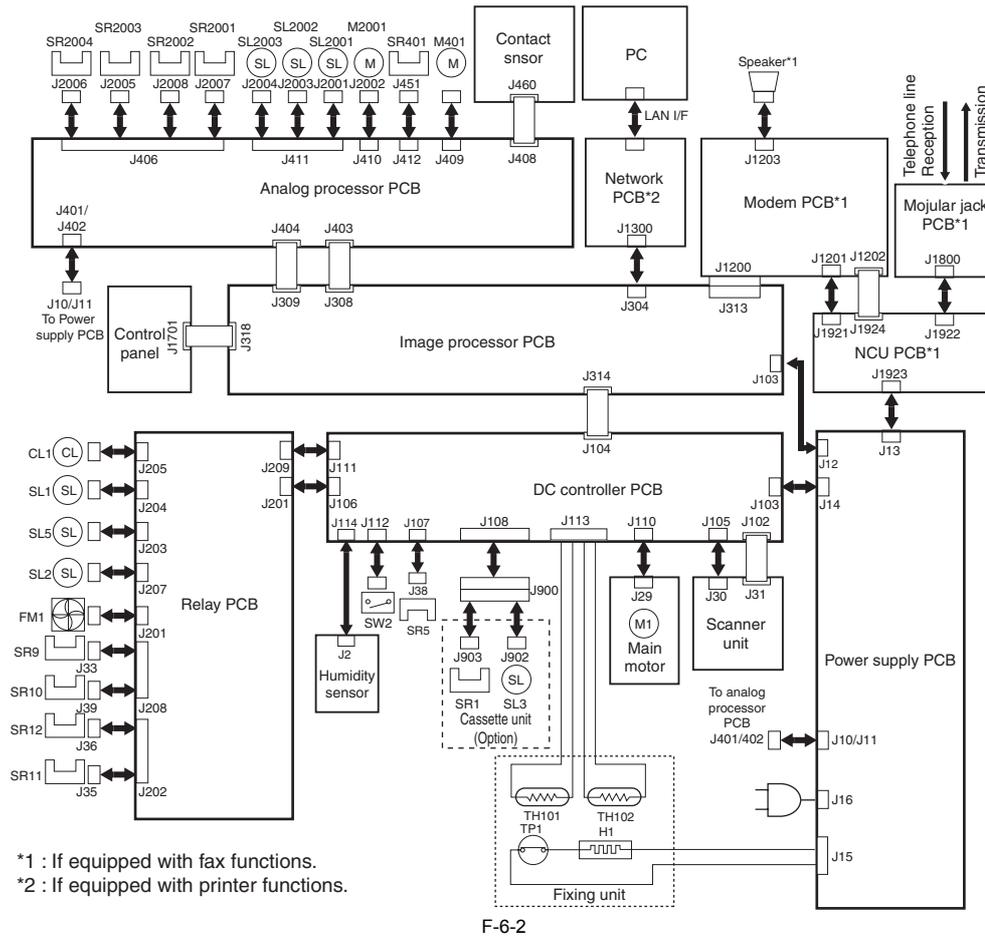
\*1 : If equipped with printer functions.

\*2 : If equipped with fax functions.

F-6-1

## 6.1.2 Functional Block Diagram

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL



## 6.1.3 Image Processor PCB

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

### 1.function

The image processor PCB has the following functions.

#### Drive Control Block

The drive control mechanism acts on the reader motor and the ADF motor by the work of the ASIC and motor drive IC.

#### Control Panel Control Block

The control panel control block receives the state of control keys while sending/receiving data in serial communication with the control IC of the control panel PCB. Also, it sends LED and LCD signals to the control panel PCB.

#### Image Processing Control Block

- It subjects the digital image data from the analog processor PCB to enlargement/reduction processing, shading correction, smoothing, and other image processing, thereby converting it to 600x600-dpi image signals (VD0, VD01\*, VDO2, VDO2\*).
- It converts the analog image data from fax communication into 600x600-dpi image signals (VD0, VD01\*, VDO2, VDO2\*).
- It uses a horizontal sync signal (BD0\*) as a trigger to send image signals (VD0, VD01\*, VDO2, VDO2\*) to the laser unit.
- The image data from the contact sensor is re-arranged, and the intensity of the contact sensor LED is controlled.

#### Smoothing

The 300 x 300-dpi image data from the PC is converted into image data equivalent of 1200 x 600 dpi; or, 600 x 600-dpi image data is converted into data equivalent of 2400 x 600-dpi.

#### Sensor Detection

It detects the state of each sensor of the reader unit and the ADF.

#### ESS Control

It controls the ESS function used to reduce the power consumption while the machine is in standby state.

#### Memory Storage

Image data is stored in SDRAM, and is retained for about 1 hr even after the power is removed by the work of the super capacitor mounted on the modem PCB. The system software and various data (e.g., user data, service data) are held by flash ROM.

#### Speaker Control (if equipped with fax functions.)

It turns on/off or control the volume of the error sound, key sound, and line monitor sound generated by the speaker.

### MEMO

The volume of the line monitor or the sound of the key sound or the error sound is adjusted in user mode.

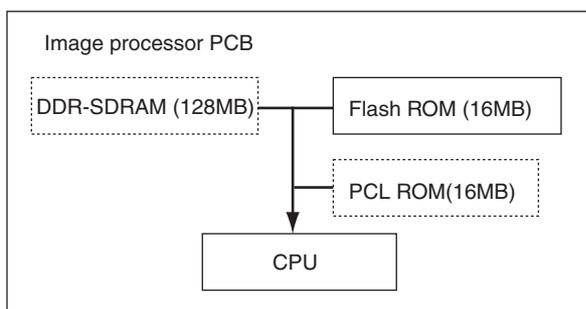
### 2. Construction

The image processor comes in different ROM types/sizes and RAM sizes according to models.

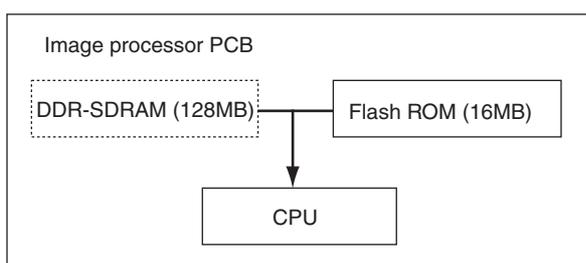
The firmware stored in the flash ROM may be either SYSTEM or BOOT.

Using the service support tool, the following 3 types of firmware may be upgraded: SYSTEM and BOOT stored in the flash ROM and the firmware stored on PCL ROM.

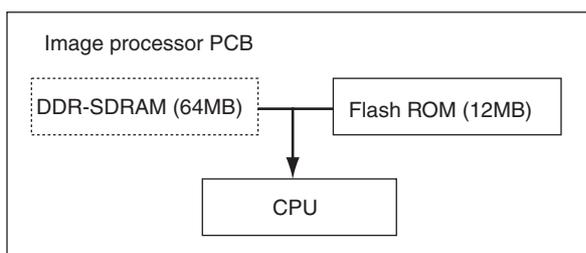
<with PCL functions>



<w/o PCL functions, with network functions>



<w/o PCL functions, w/o network functions>



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### 6.1.4 DC Controller PCB

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

#### Fixing Heater Control Block

The fixing heater control block monitors the temperature reading of the thermistor to ensure that the temperature of the heater reaches a specific level. If an error is detected in the temperature of the heater, it stops the power to the heater.

#### High-Voltage Control Block

The high-voltage control block controls the high voltage for the primary charging roller, developing cylinder of the cartridge, transfer charging roller, and fixing film.

#### Drive Control Block

The drive control block controls the main motor, pickup solenoid, and fan.

#### Sensor Detection

It detects the state of the sensors in the pickup assemblies and the printer block, thereby monitoring the drive assembly.

#### Image Processor PCB Interface block

The image processor PCB interface block sends the horizontal sync signal (BD0\*) to the image processor PCB. It also returns a state signal in response to a command signal (serial) from the image processor PCB, thereby communicating the state of the printer block to the image processor PCB.

#### Laser Control Block

The laser control block controls the drive of the laser diode of the laser scanner unit according to the image signals (VD01, VD01\*, VD02, VD02\*) from the image processor PCB. Also, it controls the intensity of the laser diode (auto power control) for each line of print data.

#### Horizontal Sync Signal Control

When the laser beam reaches the horizontal print start position, the laser beam detection signal (BD1\*) from the laser scanner unit is detected, and the horizontal sync signal (BD0\*) is sent to the image processor PCB. Also, the horizontal sync signal (BD\*) is monitored for frequency of output.

#### Scanner Motor Control

The scanner motor is controlled so that the horizontal resolution of the print image is 600 dpi. Also, the laser beam detection signal (BD1\*) from the laser scanner unit is detected to monitor the rotation of the scanner motor.

#### Cartridge Detection Mechanism

In wait state, the CPU on the DC controller PCB measures the voltage level of the cartridge detection signal (CRGSNS) a specific number of times to check the presence/absence of the cartridge when an AC bias is applied to the primary charging roller.

### **Toner Level Detection Mechanism**

While the machine is in wait state, the toner level detection signal (ADDTNR; based on the comparison of the developing bias output and the antenna output inside the cartridge) occurring when the developing AC bias is detected during normal rotation to monitor the toner level inside the cartridge.

### **6.1.5 Analog Processor PCB**

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

The analog image data read by the contact sensor is converted into digital image data and sent to the ASIC of the image processor PCB.

### **6.1.6 Power Supply PCB**

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

#### **Switching Regulator**

The following is generated using power from the power outlet for loads: +24DC, +5 VDC, +5VRDC, +3.3VSDC, +3.3VRDC.

### **6.1.7 Relay PCB**

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

The signals from the sensors/solenoids/clutches are sent to the DC controller PCB through the relay PCB.

### **6.1.8 Control Panel PCB**

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

#### **Key Detection and LCD/LED Drive**

The keys are monitored, and the LCD and LEDs are driven.

#### **LCD Function**

The LCD consisting of 2 lines of 20 characters is controlled according to the display signals from the image processor PCB.

#### **Serial Communication Control**

The state of the control keys is monitored based on serial communications with the image processor PCB. LCD and LED drive data are received.

### **6.1.9 Network PCB Äif equipped with network functionsAj**

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

The communications with the PC are controlled. The image data from the PC is converted into print data for the machine, and is sent to the image processor PCB.

### **6.1.10 NCU PCB (if equipped with fax functions)**

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

#### **2-Line/4-Line Conversion Circuit**

Signals from a 2-line telephone line are converted into 4-line signals (transmission signals and reception signals). Also, the transmission signals from the image processor PCB are prevented from entering the reception circuit.

#### **Dial Pulse Generation Circuit**

The dial pulse generation circuit generates dial pulses by turning on and off the relay inside it according to the control signals from the image processor PCB. It then sends the dial signals to the telephone line by way of the modular jack PCB.

#### **Off-Hook Detection Circuit**

An off-hook state is detected with reference to the direct current flowing into the circuit, occurring when the telephone connected to the telephone terminal of the modular jack PCB is off the hook.

#### **Line Voltage Conversion Circuit**

The primary side of the NCU PCB is controlled using a line voltage of +48 VDC. In light of this, the DC component is cut by the capacitor, and only the audio signals are converted into voltages suited to the modem level.

### **6.1.11 Modular Jack PCB (if equipped with fax functions)**

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

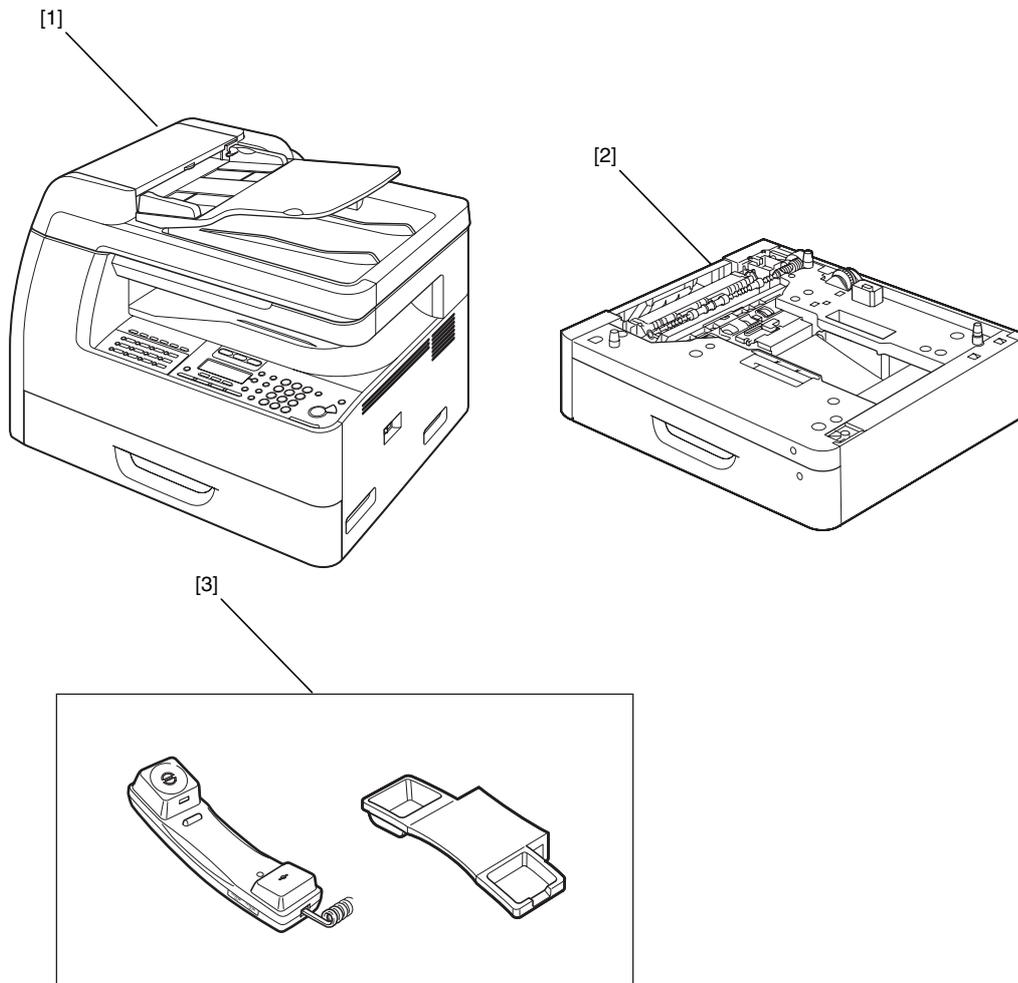
The signals from the 2 modular jacks (for telephone line and telephone connection) are communicated to the line voltage conversion circuit of the NCU PCB, and the signals from the fax are communicated to the telephone line.

## **6.2 System Construction**

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### **6.2.1 System Construction**

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL



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[1] Host machine

[2] Cassette Unit-M1

[3] Hand Set CT-25 \*1

\*1 The handset comes standard with the imageCLASS MF6550 for China. It is optionally available for the Laser Base MF6550 for Europe and Laser Base MF6580PL. It is not available optionally for other models.

## 6.3 Product Specifications

### 6.3.1 Product Specifications

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

|                                       |   |
|---------------------------------------|---|
| <b>Copyboard</b>                      | stream reading, fixed reading   |
| <b>Body</b>                           | desktop   |
| <b>Light source type</b>              | LED   |
| <b>Lens type</b>                      | CS (Contact sensor)   |
| <b>Photosensitive medium</b>          | OPC drum (24-mm dia.)   |
| <b>Reproduction method</b>            | indirect electrostatic  |
| <b>Exposure method</b>                | by laser light  |
| <b>Charging method</b>                | by roller contact   |
| <b>Development method</b>             | 1-component toner projection  |
| <b>Transfer method</b>                | by transfer roller  |
| <b>Separation method</b>              | by curvature + static eliminator  |
| <b>Pickup method</b>                  | Cassette: 1 cassette<br>Multifeeder: 1 feeder   |
| <b>Cassette pickup method</b>         | claw + retard   |
| <b>Multifeeder pickup method</b>      | dual processing   |
| <b>Drum cleaning method</b>           | by cleaning blade   |
| <b>Fixing method</b>                  | SURF (on-demand)  |
| <b>Toner supply type</b>              | by toner cartridge  |
| <b>Toner type</b>                     | magnetic negative toner   |
| <b>Auto Clear</b>                     | yes   |
| <b>Original type</b>                  | Sheet, book, 3-D object (2 kg max.)   |
| <b>Maximum original size</b>          | LGL (356 X 216mm)   |
| <b>Reproduction ratio</b>             | A series: 2R2E (1:1.000, 1:0.500, 1:0.70, 1:0.41, 1:2.000)<br>INCH series: 3R2E (1:1.000, 1:0.500, 1:0.64, 1:0.78, 1:1.29, 1:2.000)<br>AB series: 4R4E (1:1.000, 1:0.500, 1:0.70, 1:0.81, 1:0.86, 1:1.15, 1:1.41, 1:2.000)<br>50% to 200% (1% increments)*1<br>*1 except for MF6531 |
| <b>Warm-up time</b>                   | 13.5 sec or less (w/o PCL ROM: ROM 12MB, 16MB model)<br>16.0 sec or less (with PCL ROM: ROM 32MB model)   |
| <b>First print time</b>               | Book: 7.7sec or less (A4), 7.6 sec or less (LTR)<br>ADF: 12 sec or less (A4/LTR)  |
| <b>Cassette paper size</b>            | A4 or LGL/LTR   |
| <b>Multifeeder paper size</b>         | Width: 76.2 to 216 mm<br>Length: 127 to 356 mm<br>Weight: 56 to 128 g/m2  |
| <b>Cassette paper type</b>            | Plain paper (60 to 90 g/m2), recycled paper (60 to g/m2), colored paper (60 to 90 g/m2)   |
| <b>Multifeeder tray paper type</b>    | Plain paper (60 to 90 g/m2), recycled paper (60 to g/m2), colored paper (60 to 90 g/m2), transparency, label, postcard, thick paper (90 to 128 g/m2), envelope (COM10, Monarch, DL, ISOB5, ISO-C5)  |
| <b>Duplex paper type</b>              | Plain paper, colored paper, recycled paper  |
| <b>Cassette capacity</b>              | 500 sheets (80 g/m2)  |
| <b>Multifeeder tray capacity</b>      | 100 sheets (plain paper: 80g/m2)<br>80 sheets (heavy paper: 91 to 105g/m2)<br>50 sheets (heavy paper: 106 to 128g/m2)<br>40 sheets (label)<br>10 sheets (envelope, OHP)<br>50 sheets (post card)  |
| <b>Delivery tray stack</b>            | 100 sheets (plain paper: 80g/m2)<br>80 sheets (heavy paper: 91 to 105g/m2)<br>50 sheets (heavy paper: 106 to 128g/m2)<br>40 sheets (label)<br>10 sheets (envelope, OHP)<br>50 sheets (post card)  |
| <b>Continuous reproduction</b>        | 1 to 99 sheets  |
| <b>Non-image width (leading edge)</b> | 3.0 +/-2.5 mm   |
| <b>Non-image width (left/right)</b>   | 2.5 +/-2.0 mm   |
| <b>Image mode</b>                     | Yes (text, text/photo, photo)   |
| <b>Auto power off</b>                 | yes   |

|   |  |
|---|--|
| <b>Energy save mode</b>                             | yes (manually ON/OFF; auto OFF after specific time, auto ON after fax reception/print data reception)  |
| <b>Operating environment (temperature range)</b>    | 15 to 30 deg C   |
| <b>Operating environment (humidity range)</b>       | 10 to 80%  |
| <b>Operating environment (atmospheric pressure)</b> | 0.6 to 1.0 atm   |
| <b>Noise</b>  | Copying<br>(A4/22cpm model):66.7 dB or less (fast mode)<br>(LTR/23cpm model):67.05 dB or less (fast mode: reference)                               |
| <b>Power supply rating</b>                          | 120V (50/60Hz), 230V (50/60Hz)   |
| <b>Power consumption (maximum)</b>                  | 120V: Approx. 780 kW (max.)<br>230V: Approx. 860 kW (max.)   |
| <b>Power consumption</b>                            | Standby: TBD W (approx.; reference only)<br>Operation: TBD W (approx.; reference only)<br>Energy save stanby: 2 W or less (approx; reference only) |
| <b>Ozone</b>  | 0.02mg or less   |
| <b>Dimensions</b>                                   | 520 mm (W) X 457mm (D) X 453mm (H): standard model<br>520 mm (W) X 457mm (D) X 581mm (H): with optional cassette unit                              |
| <b>Weight</b>                                       | Approx. 10.8 lb(23.7kg) (including toner cartridge)  |
| <b>Option</b>                                       | Cassette unit, Hand set  |

### 6.3.2 ADF Specifications

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

|                                  |   |
|----------------------------------|---|
| <b>Original orientation</b>      | Face-down   |
| <b>Original position</b>         | Center reference  |
| <b>Original processing mode</b>  | - Single-sided document processing<br>- Double-sided document processing  |
| <b>Original reading</b>          | Stream reading  |
| <b>Stack</b>                     | small size *1: 50 sheets or less<br>large size*2: 25 sheets or less<br>*1: small size (A4R, B5R, A5R, B6, LTRR, SMTR)<br>*2: large size (LGL) |
| <b>Mixed original sizes</b>      | Same types of paper can be mixed.   |
| <b>Original AE detection</b>     | no  |
| <b>Original size recognition</b> | no  |
| <b>Stamp</b>                     | no  |
| <b>Operating environment</b>     | Same as that of host machine.   |

## 6.4 Function List

### 6.4.1 Printing Speed

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

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| Type        |       | Single-sided  |             | Two-sided     |             |
|-------------|-------|---------------|-------------|---------------|-------------|
|             |       | Cassette feed | Manual feed | Cassette feed | Manual feed |
| Plain paper | A4R   | 22            | 22          | TBD           | TBD         |
|             | B5R   | -             | 13          | -             | TBD         |
|             | A5R   | -             | 13          | -             | TBD         |
|             | LGL   | 18            | 18          | TBD           | TBD         |
|             | LTRR  | 23            | 23          | TBD           | TBD         |
|             | STMTR | -             | 13          | -             | TBD         |

| Type              |         | Single-sided  |             | Two-sided     |             |
|-------------------|---------|---------------|-------------|---------------|-------------|
|                   |         | Cassette feed | Manual feed | Cassette feed | Manual feed |
| Heavy paper 1/2/3 | A4R     | -             | 14          | -             | TBD         |
|                   | B5R     | -             | 6           | -             | TBD         |
|                   | A5R     | -             | -           | -             | -           |
|                   | LGL     | 14            | 14          | TBD           | TBD         |
|                   | LTRR    | -             | 13          | -             | TBD         |
|                   | STMTR   | -             | 6           | -             | TBD         |
| Bond paper        | A4R     | -             | 6           | -             | -           |
|                   | B5R     | -             | 6           | -             | -           |
|                   | A5R     | -             | -           | -             | -           |
|                   | LGL     | -             | 10          | -             | -           |
|                   | LTRR    | -             | 10          | -             | -           |
|                   | STMTR   | -             | 6           | -             | -           |
| OHP               | A4R     | -             | 6           | -             | -           |
|                   | LTRR    | -             | 6           | -             | -           |
| Envelope          | Monarch | -             | 6           | -             | -           |
|                   | COM10   | -             | 6           | -             | -           |
|                   | ISO-B5  | -             | 6           | -             | -           |
|                   | ISO-C5  | -             | 6           | -             | -           |
|                   | DL      | -             | 6           | -             | -           |

**Supplement:**

- The above copy speed does not change if magnification is changed.
- The above copy speed does not change irrespective of whether paper is supplied from the cassette, the manual feed tray, or from the cassette feeding module.
- The copy speed may become down when the copies make continuously one minutes or more with the narrow width paper. The slowdown is reduced with the following user mode. User Mode: Additional Functions > Adjust/Cleaning > Special Mode P > ON

**6.4.2 Types of Paper**

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

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| Type   |                          | Paper size  | Source           |          | Duplex print |
|--|--------------------------|---|------------------|----------|--------------|
|  |                          |   | Manual Feed Tray | Cassette |              |
| Plain paper, eco paper, recycled paper (64-90g/m2) |                          | A4R, B5R, A5R, LGL, LTRR, STMTR, EXER, 16KR*1, OFICIO, B-OFICIO, M-OFICIO, FOLIO, GLTRR, GLGL, FLSP | yes              | yes      | yes          |
| Special paper                                      | Heavy paper (90-128g/m2) | Width:: 76.2mm-216mm<br>Length: 127mm-356mm   | yes              | no       | no           |
|  | OHP                      | A4R, LTRR   | yes              | no       | no           |
|  | Postcard                 | Postcard A6R modified   | yes              | no       | no           |
|  | 4-plane postcard         | A4 modified   | yes              | no       | no           |
|  | Label paper              | A4R, LTRR   | yes              | no       | no           |
|  | 3-hole paper             | LTRR  | yes              | yes      | yes          |
|  | Transparency             | A4R   | no               | yes      | no           |
|  | Envelope                 | Com10, Monarch, DL, ISO-C5, ISO-B5  | yes              | no       | no           |

\*1: only for China





# Chapter 7 Upgrading

## 7.1 Upgrading

### 7.1.1 Overview of Upgrade

LaserBase MF6530 / / LaserBase MF6540PL / LaserBase MF6550 / KaserBase MF6560PL / / LaserBase MF6580PL

This machine and options can be upgraded by downloading system software programs from the personal computer (hereafter called as the PC) in which a service support tool (hereafter called SST) has been loaded.

System software programs and upgrade tools are listed in the following table:

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| Type      | System software type     | Upgrade tool | Remarks                                   |
|-----------|--------------------------|--------------|---|
|           |                          | SST          |   |
| Main unit | System (main controller) | Yes          | Main controller also controls the reader. |
|           | Boot (boot program)      | Yes          |   |
|           | PCL                      | Yes          | 16MB ROM PCB                              |

Download the system software for PCL board following the same procedure described in "Downloading the System".



Feb 22 2006

