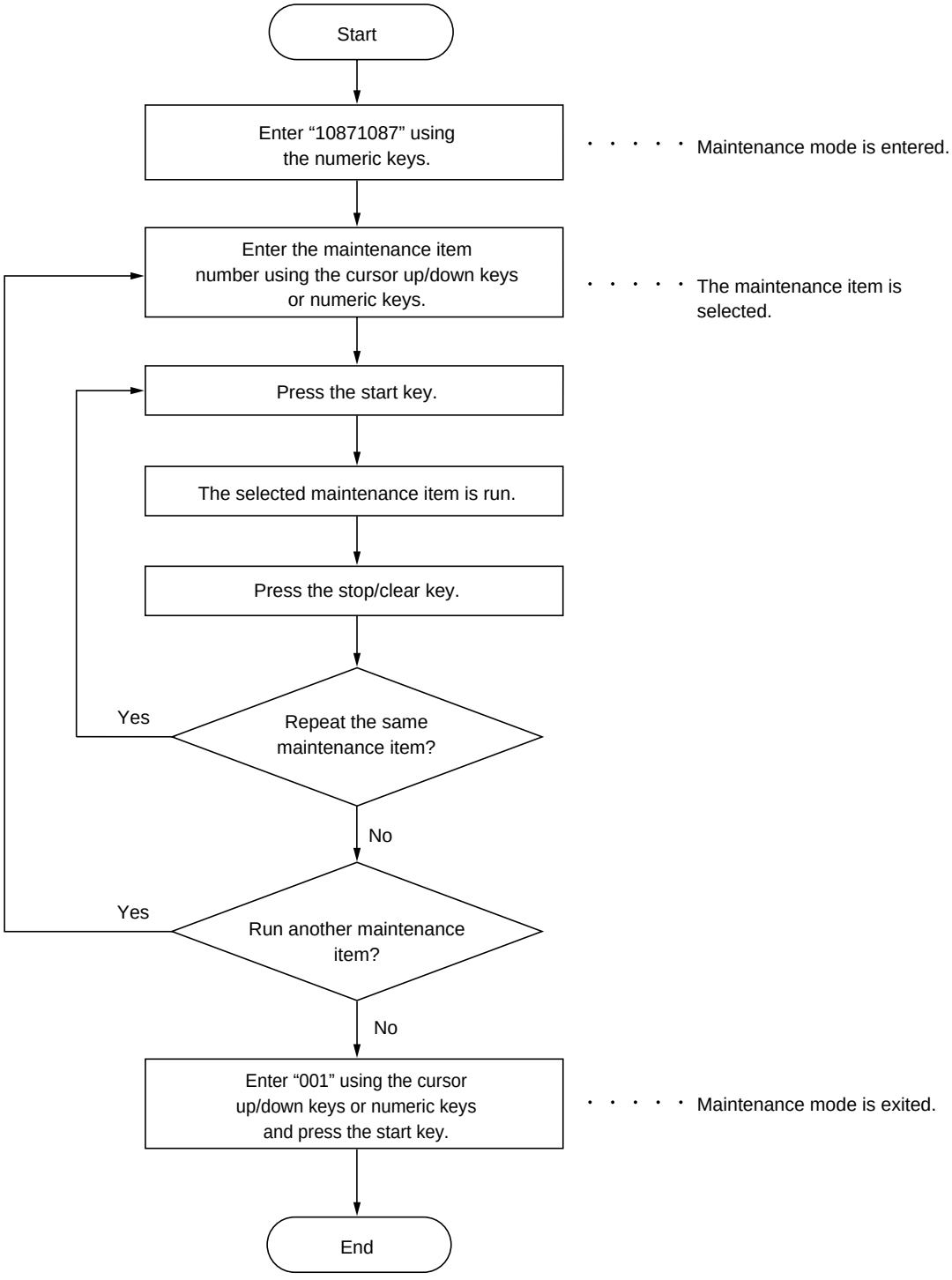
1-4-1 Maintenance mode

The copier is equipped with a maintenance function which can be used to maintain and service the machine.

(1) Executing a maintenance item



(2) Maintenance mode item list

Section	Item No.	Maintenance item contents	Initial setting*
General	U000	Outputting an own-status report	—
	U001	Exiting the maintenance mode	—
	U003	Setting the service telephone number	**********
	U004	Setting the machine number	000000
	U005	Copying without paper	—
	U019	Displaying the ROM version	—
Initialization	U020	Initializing all data	—
	U021	Initializing counters and mode settings	—
	U022	Initializing data for optical system	—
Drive, paper feed, paper conveying and cooling system	U030	Checking motor operation	—
	U031	Checking switches for paper conveying	—
	U032	Checking clutch operation	—
	U033	Checking solenoid operation	—
	U034	Adjusting the print start timing • Adjusting the leading edge registration • Adjusting the center line	 0 0
	U035	Setting folio size • Length • Width	 330 210
	U038	Checking the copier cover switch	—
	U051	Adjusting the amount of slack in the paper • Regist data • Feed data	 0 0
Optical	U053	Performing fine adjustment of the motor speed • Drive motor • Eject motor • Polygon motor	 7 7 0
High voltage	U060	Adjusting the scanner input properties	12
	U061	Turning the exposure lamp on	—
	U063	Adjusting the shading position	0
	U065	Adjusting the scanner magnification • Main scanning direction/auxiliary scanning direction	 0
	U066	Adjusting the leading edge registration for scanning an original on the contact glass	0
	U067	Adjusting the center line for scanning an original on the contact glass	0
	U068	Adjusting the scanning position for originals from the DF	0
	U070	Adjusting the DF magnification	0
	U071	Adjusting the DF scanning timing • DF leading edge registration/DF trailing edge registration	 0
	U072	Adjusting the DF center line	0
	U073	Checking scanner operation	—
	U074	Adjusting the DF input light luminosity	1
	U087	Turning the DF scanning position adjust mode on/off	On
	U088	Setting the input filter (moiré reduction mode)	Off
	U089	Outputting a MIP-PG pattern	—
	U091	Checking shading	—
	U092	Adjusting the scanner automatically	—
	U093	Setting the exposure density gradient • Text and photo/text/photo mode	 0
	U099	Checking and setting the original size detection sensor	—

* Initial setting for executing maintenance item U020

Section	Item No.	Maintenance item contents	Initial setting*
Developing	U100	Checking the operation of main high voltage	184
	U101	Setting high voltages • Developing bias AC component frequency at image formation • Developing bias AC component duty at image formation • Transfer control voltage	 33 50 132
	U110	Checking/clearing the drum count	—
	U112	Setting toner refresh operation • Time of toner refreshment • Developing bias on time	 120 700
Fixing and cleaning	U113	Operating the drum refreshment	—
	U130	Initial setting for the developer	—
	U144	Setting toner loading operation	MODE2
	U150	Checking sensors and switches for toner	—
	U157	Checking/clearing the developing drive time	—
	U158	Checking/clearing the developing count	—
Operation panel and support equipmen	U161	Setting the fixing control temperature • Control temperature during copying • Primary stabilization fixing temperature • Secondary stabilization fixing temperature	 155 120 155
	U162	Stabilizing fixing forcibly	—
	U163	Resetting the fixing problem data	—
	U165	Checking/clearing fixing counts	—
	U196	Turning the fixing heater on	—
	U199	Checking the fixing temperature	—
Mode setting	U200	Turning all LEDs on	—
	U201	Initializing the touch panel	—
	U202	Setting the KMAS host monitoring system	—
	U203	Operating DF separately	—
	U204	Setting the presence or absence of a key card or key counter	—
	U206	Setting the presence or absence of the coin vender	—
	U207	Checking the operation panel keys	—
	U208	Setting the paper size for the large paper deck	A4
	U211	Setting DF type	—
	U217	Setting $8^1/_2$" $\times$ 13" paper	—
	U237	Setting finisher stack quantity	—
	U243	Checking the operation of the DF motors, solenoids and clutch	—
	U244	Checking the DF switches	—
	U245	Checking messages	—
	U246	Setting the finisher • Amount of slack in the paper • Booklet stapling position adjustment	 0 0
	U247	Checking the operation of large paper deck and paper feed desk	—
	U249	Checking the paper ejection to optional devices	—
Mode setting	U250	Setting the maintenance cycle	500000 (35 cpm) 400000 (25 cpm)
	U251	Checking/clearing the maintenance count	—
	U252	Setting the destination	Japan
	U253	Switching between double and single counts	Double count
	U254	Turning auto start function on/off	On
	U255	Setting auto clear time	90
	U256	Turning auto preheat/energy saver function on/off	On

* Initial setting for executing maintenance item U020

Section	Item No.	Maintenance item contents	Initial setting*
	U258	Switching copy operation at toner empty detection	Single mode, 0
	U260	Changing the copy count timing	After ejection
	U265	Setting OEM purchaser code	—
Image processing	U330	Setting the number of sheets to enter stacking mode during sort operation	—
	U332	Setting the size conversion factor	—
	U341	Specific paper feed location setting for printing function	—
	U342	Setting the ejection restriction	On
Others	U343	Switching between duplex/simplex copy mode	Off
	U344	Setting preheat/energy saver mode	E 2000
	U345	Setting the value for maintenance due indication	—
	U402	Adjusting margins of image printing	—
	U403	Adjusting margins for scanning an original on the contact glass	—
	U404	Adjusting margins for scanning an original from the DF	—
	U407	Adjusting the leading edge registration for memory image printing	—
	U901	Checking/clearing copy counts by paper feed locations	—
	U902	Checking/clearing finisher punch count	75000
	U903	Checking/clearing the paper jam counts	—
	U904	Checking/clearing the service call counts	—
	U905	Checking/clearing counts by optional devices	—
	U906	Resetting partial operation control	—
	U908	Changing the total counter value	—
	U910	Clearing the black ratio data	—
	U911	Checking/clearing copy counts by paper sizes	—
	U990	Checking/clearing the time for the exposure lamp to light	—
	U991	Checking/clearing the scanner count	—
	U992	Checking or clearing the printer/fax count	—
	U993	Outputting a VTC-PG pattern	—

* Initial setting for executing maintenance item U020

(3) Contents of maintenance mode items

<table>
<tr><th>Maintenance item No.</th><th>Description</th></tr>
<tr><td>U000</td><td>
Outputting an own-status report
Description
Outputs lists of the current settings of the maintenance items, and paper jam and service call occurrences.
Purpose
To check the current setting of the maintenance items, or paper jam or service call occurrences.
Before initializing or replacing the backup RAM, output a list of the current settings of the maintenance items to reenter the settings after initialization or replacement.
Method
1. Press the start key. The screen for selecting an item is displayed.
2. Select the item to be output. The selected item is displayed in reverse.
<table>
<tr><th>Display</th><th>Output list</th></tr>
<tr><td>MAINTENANCE
JAM
SERVICE CALL</td><td>List of the current settings of the maintenance modes
List of the paper jam occurrences
List of the service call occurrences</td></tr>
</table>
3. Press the start key. The interrupt copy mode is entered and a list is output.
When A4/11" × 8 1/2" paper is available, a report of this size is output. If not, specify the paper feed location.
When output is complete, the screen for selecting an item is displayed.
Completion
Press the stop/clear key at the screen for selecting an item. The screen for selecting a maintenance item No. is displayed.
</td></tr>
<tr><td>U001</td><td>
Exiting the maintenance mode
Description
Exits the maintenance mode and returns to the normal copy mode.
Purpose
To exit the maintenance mode.
Method
Press the start key. The normal copy mode is entered.
</td></tr>
</table>

<table>
<tr><th>Maintenance item No.</th><th>Description</th></tr>
<tr><td>U003</td><td>
Setting the service telephone number
Description
Sets the telephone number to be displayed when a service call code is detected.
Purpose
To set the telephone number to call service when installing the machine.
Method
Press the start key. The currently set telephone number is displayed.
Setting
1. Enter a telephone number (up to 15 digits) using the numeric keys.
• To enter symbols such as hyphens and parentheses, select as required from the symbols displayed on the touch panel as shown below. To move the cursor, press LEFT or RIGHT in the bottom row.
<table>
<tr><td>*</td><td>#</td></tr>
<tr><td>(</td><td>)</td></tr>
<tr><td>-</td><td>(Space)</td></tr>
<tr><td>LEFT</td><td>RIGHT</td></tr>
</table>
2. Press the start key. The phone number is set, and the screen for selecting a maintenance item No. is displayed.
Completion
To exit this maintenance item without changing the current setting, press the stop/clear key. The screen for selecting a maintenance item No. is displayed.
</td></tr>
<tr><td>U004</td><td>
Setting the machine number
Description
Displays and changes the machine number.
Purpose
To check or set the machine number.
Method
Press the start key. The currently set machine number is displayed.
Setting
1. Enter the last six digits of the machine number using the numeric key.
Do not enter the first two digits, 3 and 7.
2. Press the start key. The machine number is set, and the screen for selecting a maintenance item No. is displayed.
Completion
To exit this maintenance item without changing the current setting, press the stop/clear key. The screen for selecting a maintenance item No. is displayed.
</td></tr>
</table>

<table>
<tr><th>Maintenance item No.</th><th>Description</th></tr>
<tr><td>U005</td><td>
Copying without paper
Description
Simulates the copy operation without paper feed.
Purpose
To check the overall operation of the machine.
Method
1. Press the start key. The screen for selecting an item is displayed.
2. Select the item to be operated. The selected item is displayed in reverse.
<table>
<tr><th>Display</th><th>Operation</th></tr>
<tr><td>PPC
PPC + DF</td><td>Only the copier operates.
Both the copier and DF operate (continuous operation).</td></tr>
</table>
3. Press the interrupt key. The copy mode screen is displayed.
4. Set the operation conditions required on the copy mode screen. Changes in the following settings can be made.
• Paper feed locations
• Magnifications
• Simplex or duplex copy mode
• Number of copies: in simplex copy mode, continuous copying is performed when set to 999; in duplex copy mode, continuous copying is performed regardless of the setting.
• Copy density
• Keys on the operation panel other than the energy saver (preheat) key
5. To control the paper feed pulley, remove all the paper in the drawers, or the drawers. With the paper present, the paper feed pulley does not operate.
6. Press the start key. The operation starts.
Copy operation is simulated without paper under the set conditions. When operation is complete, the screen for selecting an item is displayed.
7. To stop continuous operation, press the stop/clear key.
Completion
Press the stop/clear key at the screen for selecting an item. The screen for selecting a maintenance item No. is displayed.
</td></tr>
<tr><td>U019</td><td>
Displaying the ROM version
Description
Displays the part number of the ROM fitted to each PCB.
Purpose
To check the part number or to decide if the ROM version is new from the last digit of the number.
Method
Press the start key. The last eight digits of the part number indicating the ROM version are displayed.
<table>
<tr><th>Display</th><th>Description</th></tr>
<tr><td>MAIN
MMI
LANGUAGE(Stand.)
LANGUAGE(Option)
MAIN BOOT
MMI BOOT
NETWORK SCANNER</td><td>Main ROM IC
Operation ROM IC
Standard language ROM IC
Optional language ROM IC
Boot of main ROM IC
Boot of operation ROM IC
Network scanner ROM IC</td></tr>
</table>
Completion
Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.
</td></tr>
</table>

Maintenance item No.	Description
U020	**Initializing all data** **Description** Initializes all the backup RAM on the main PCB to return to the original settings. **Purpose** Used when replacing the backup RAM on the main PCB. **Method** 1. Press the start key. The screen for executing is displayed. 2. Press EXECUTE on the touch panel. It is displayed in reverse. 3. Press the start key. All data in the backup RAM is initialized, and the original settings for Japan specifications are set. When initialization is complete, the machine automatically returns to the same status as when the main switch is turned on and the display language to the initial setting of English. **Completion** To exit this maintenance item without executing initialization, press the stop/clear key. The screen for selecting a maintenance item No. is displayed.
U021	**Initializing counters and mode settings** **Description** Initializes the setting data other than that for adjustments due to variations between respective machines, i.e., settings for counters, service call history and mode settings. As a result, initializes the backup RAM according to the specifications depending on the destination selected in U252. **Purpose** Used to return the machine settings to the factory settings. **Method** 1. Press the start key. The screen for executing is displayed. 2. Press EXECUTE on the touch panel. It is displayed in reverse. 3. Press the start key. All data other than that for adjustments due to variations between machines is initialized based on the destination setting. **Completion** Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.
U022	**Initializing data for optical system** **Description** Initializes only the data set for the optical section. **Purpose** To be executed after replacing the scanner unit. **Method** 1. Press the start key. The screen for executing is displayed. 2. Press SCANNER on the touch panel. 3. Press EXECUTE on the touch panel. It is displayed in reverse. 4. Press the start key. The data for the optical section (U060 to 067, U088 to 099, U403, U990 and U991) is initialized. **Completion** Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.

<table>
<tr><th>Maintenance item No.</th><th>Description</th></tr>
<tr><td>U030</td><td>
Checking motor operation

Description
Drives each motor.

Purpose
To check the operation of each motor.

Method
1. Press the start key. The screen for selecting an item is displayed.
2. Select the motor to be operated. The selected item is displayed in reverse and the operation starts.
<table>
<tr><th>Display</th><th>Operation</th></tr>
<tr><td>FEED</td><td>Paper feed motor operates</td></tr>
<tr><td>MAIN</td><td>Drive motor operates</td></tr>
<tr><td>EJECT(FW)</td><td>Eject motor rotates forward</td></tr>
<tr><td>EJECT(REV)</td><td>Eject motor rotates in reverse</td></tr>
</table>
3. To stop operation, press the stop/clear key.

Completion
Press the stop key after operation stops. The screen for selecting a maintenance item No. is displayed.
</td></tr>
<tr><td>U031</td><td>
Checking switches for paper conveying

Description
Displays the on-off status of each paper detection switch on the paper path.

Purpose
To check if the switches for paper conveying operate correctly.

Method
1. Press the start key. A list of the switches, the on-off status of which can be checked, are displayed.
2. Turn each switch on and off manually to check the status.
When the on-status of a switch is detected, that switch is displayed in reverse.
<table>
<tr><th>Display</th><th>Switches</th></tr>
<tr><td>F1</td><td>Feed switch 1 (FSW1)</td></tr>
<tr><td>F2</td><td>Feed switch 2 (FSW2)</td></tr>
<tr><td>F3</td><td>Feed switch 3 (FSW3)</td></tr>
<tr><td>BYP</td><td>Bypass feed switch (BYPFSW)</td></tr>
<tr><td>RES</td><td>Registration switch (RSW)</td></tr>
<tr><td>EJE</td><td>Eject switch (ESW)</td></tr>
<tr><td>BRA</td><td>Feedshift switch (FSSW)</td></tr>
<tr><td>DUP</td><td>Duplex paper conveying switch (DUPPCSW)*</td></tr>
<tr><td>JOB</td><td>Job separator eject switch (JBESW)*</td></tr>
</table>
*Optional.

Completion
Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.
</td></tr>
</table>

<table>
<tr><th>Maintenance item No.</th><th>Description</th></tr>
<tr><td>U032</td><td>
Checking clutch operation
Description
Turns each clutch on.
Purpose
To check the operation of each clutch.
Method
1. Press the start key. The screen for selecting an item is displayed.
2. Select the clutch to be operated. The selected item is displayed in reverse, and the clutch turns on for 1 s.
<table>
<tr><th>Display</th><th>Clutches</th></tr>
<tr><td>PF1</td><td>Upper paper feed clutch (PFCL-U)</td></tr>
<tr><td>PF2</td><td>Lower paper feed clutch (PFCL-U)</td></tr>
<tr><td>PFBYP</td><td>Bypass paper feed clutch (BYPPFCL)</td></tr>
<tr><td>FEED1</td><td>Feed clutch 1 (FCL1)</td></tr>
<tr><td>FEED2</td><td>Feed clutch 2 (FCL2)</td></tr>
<tr><td>FEED3</td><td>Feed clutch 3 (FCL3)</td></tr>
<tr><td>BYPF</td><td>Bypass feed clutch (BYPFCL)</td></tr>
<tr><td>RES</td><td>Registration clutch (RCL)</td></tr>
<tr><td>DUPF</td><td>Duplex feed clutch (DUPFCL)*</td></tr>
</table>
*Optinal.
Completion
Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.
</td></tr>
<tr><td>U033</td><td>
Checking solenoid operation
Description
Turns each solenoid on.
Purpose
To check the operation of each solenoid.
Method
1. Press the start key. The screen for selecting an item is displayed.
2. Select the solenoid to be operated. The selected item is displayed in reverse, and the solenoid turns on for 1 s.
<table>
<tr><th>Display</th><th>Solenoids</th></tr>
<tr><td>TONER SOL</td><td>Toner feed solenoid (TNFSOL)</td></tr>
<tr><td>BRANCH1 SOL</td><td>Feedshift solenoid (FSSOL)</td></tr>
<tr><td>BRANCH2 SOL</td><td>Feedshift solenoid (FSSOL)*</td></tr>
<tr><td>MAIN SW SOL</td><td>Main switch turns on</td></tr>
</table>
*Optional.
Select MAIN SW SOL to check the operation of the main switch in auto shut off.
Completion
Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.
</td></tr>
<tr><td>U034</td><td>
Adjusting the print start timing
Adjustment
See pages 1-6-10 and 12.
</td></tr>
</table>

<table>
<tr><th>Maintenance item No.</th><th>Description</th></tr>
<tr><td>U035</td><td>
Setting folio size
Description
Changes the image area for copying onto folio size paper.
Purpose
To prevent the image at the trailing edge, or right or left side of the paper from not being copied by setting the actual size of the folio paper used.
Method
Press the start key. The screen for selecting an item is displayed.
Setting
1. Select the item to be set. The selected item is displayed in reverse.
2. Change the setting using the cursor up/down keys.
<table>
<tr><th>Display</th><th>Setting</th><th>Setting range</th><th>Initial setting</th></tr>
<tr><td>LENGTH DATA
WIDTH DATA</td><td>Length
Width</td><td>330 to 356 mm
200 to 220 mm</td><td>330
210</td></tr>
</table>
3. Press the start key. The value is set.
Completion
Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.
</td></tr>
<tr><td>U038</td><td>
Checking the copier cover switch
Description
Displays the on-off status of each cover switch.
Purpose
To check if the switches of covers operate correctly.
Method
1. Press the start key. A list of the switches, the on-off status of which can be checked, are displayed.
2. Open and close each cover to check the status of each switch.
When the cover is closed, the switch shall be displayed in reverse. When the cover is open, the switch shall be displayed normally.
<table>
<tr><th>Display</th><th>Switches</th></tr>
<tr><td>INTER LOCK SW
FRONT COVER
LEFT1 COVER
LEFT2 COVER</td><td>Safty switch 1 and 2 (SSW1 and 2)
Front cover switch (FRCSW)
Conveying cover switch (CCSW)
Side cover switch (SCSW)</td></tr>
</table>
Completion
Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.
</td></tr>
<tr><td>U051</td><td>
Adjusting the amount of slack in the paper
Adjustment
See page 1-6-14.
</td></tr>
</table>

Maintenance item No.	Description
U053	**Performing fine adjustment of the motor speed**

Description
Performs fine adjustment of the speeds of the motors.

Purpose
Used to adjust the speed of the respective motors when the magnification is not correct.

Method
Press the start key. The screen for selecting an item is displayed.

Setting
1. Select the item to be set. The selected item is displayed in reverse.
2. Change the setting using the cursor up/down keys.

Display	Description	Setting range	Initial setting
MAIN MOTOR	Drive motor speed adjustment	0 to +14	7
EJECT MOTOR	Eject motor speed adjustment	0 to +14	7
POLYGON MOTOR	Polygon motor speed adjustment	-20 to +20	0

MAIN MOTOR /EJECT MOTOR
Increasing the setting makes the image longer in the auxiliary scanning direction, and decreasing it makes the image shorter in the auxiliary scanning direction.
POLYGON MOTOR
Increasing the setting makes the image longer in the main scanning direction and shorter in the auxiliary scanning direction; decreasing the setting makes the image shorter in the main scanning direction and longer in the auxiliary scanning direction.
EJECT MOTOR
Normally no change is necessary but this can be used as countermeasures against wrinkles (waving) of paper.

3. Press the start key. The value is set.

Interrupt copy mode
While this maintenance item is being performed, a VTC pattern shown below is output in interrupt copy mode. Correct values for an A3/11" × 17" output are:
A = 300 ± 1.5 mm
B = 260 ± 1.0 mm

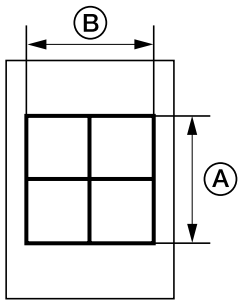


Figure 1-4-1

Adjustment
1. Output an A3/11" × 17" VTC pattern in interrupt mode.
2. Measure A and B on the VTC pattern (Figure 1-4-1), and perform the following adjustments if they are different from the correct sizes:
   A: Drive motor speed adjustment
   B: Polygon motor speed adjustment

Completion
Press the stop/clear key at the screen for selecting an item. The screen for selecting a maintenance item No. is displayed.

<table>
<tr><th>Maintenance item No.</th><th>Description</th></tr>
<tr><td>U060</td><td>
Adjusting the scanner input properties
Description
Adjusts the image scanning density in text, text and photo, or photo mode.
Purpose
Used when the entire image appears too dark or light.
Method
Press the start key. The screen for executing is displayed.
Setting
1. Change the setting using the cursor up/down keys.
<table>
<tr><th>Descrition</th><th>Setting range</th><th>Initial setting</th></tr>
<tr><td>Image scannnig density</td><td>0 to +24</td><td>12</td></tr>
</table>
Increasing the setting makes the density lower, and decreasing it makes the density higher.
2. Press the start key. The value is set.
Interrupt copy mode
While this maintenance item is being performed, copying from an original can be made in interrupt copy mode.
Completion
Press the stop/clear key at the screen for selecting an item. The screen for selecting a maintenance item No. is displayed.
Caution
The following settings are also reset to the initial values by performing this maintenance item:
• Exposure density gradient set in maintenance mode (U093)
• Exposure set in the copy default item of the copier management mode
</td></tr>
<tr><td>U061</td><td>
Turning the exposure lamp on
Description
Turns the exposure lamp on.
Purpose
To check the exposure lamp.
Method
1. Press the start key. The screen for executing is displayed.
2. Press the start key. The exposure lamp lights.
3. To turn the exposure lamp off, press the stop/clear key.
Completion
Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.
</td></tr>
</table>

<table>
<tr><th>Maintenance item No.</th><th>Description</th></tr>
<tr><td>U063</td><td>
Adjusting the shading position
Description
Changes the shading position.
Purpose
Used when white lines continue to appear longitudinally on the image after the shading plate is cleaned. This is due to flaws or stains inside the shading plate. To prevent this problem, the shading position should be changed so that shading is possible without being affected by the flaws or stains.
Method
1. Press the start key. The screen for adjustment is displayed.
2. Change the setting using the cursor up/down keys.
<table>
<tr><th>Description</th><th>Setting range</th><th>Initial setting</th><th>Change in value per step</th></tr>
<tr><td>Shading position</td><td>–5 to +5</td><td>0</td><td>0.17 mm</td></tr>
</table>
Increasing the setting moves the shading position toward the machine right, and decreasing it moves the position toward the machine left.
3. Press the start key. The value is set.
Interrupt copy mode
While this maintenance item is being performed, copying from an original can be made in interrupt copy mode.
Completion
Press the stop/clear key at the screen for adjustment. The screen for selecting a maintenance item No. is displayed.
</td></tr>
<tr><td>U065</td><td>
Adjusting the scanner magnification
Adjustment
See pages 1-6-27 and 28.
</td></tr>
<tr><td>U066</td><td>
Adjusting the leading edge registration for scanning an original on the contact glass
Adjustment
See page 1-6-29.
</td></tr>
<tr><td>U067</td><td>
Adjusting the center line for scanning an original on the contact glass
Adjustment
See page 1-6-30.
</td></tr>
<tr><td>U068</td><td>
Adjusting the scanning position for originals from the DF
Description
Adjusts the position for scanning originals from the DF.
Purpose
Used when there is a regular error between the leading edges of the original and the copy image when the DF is used.
Method
Press the start key. The screen for executing is displayed.
Setting
1. Change the setting using the cursor up/down keys.
<table>
<tr><th>Description</th><th>Setting range</th><th>Initial setting</th><th>Change in value per step</th></tr>
<tr><td>Scanning position</td><td>–17 to +17</td><td>0</td><td>0.254 mm</td></tr>
</table>
Increasing the setting moves the image backward, and decreasing it moves the image forward.
2. Press the start key. The value is set.
Completion
Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.
</td></tr>
</table>

Maintenance item No.	Description
U070	**Adjusting the DF magnification** **Description** Adjusts the DF original scanning speed. **Purpose** To be executed if the correct magnification is not obtained in the auxiliary scanning direction when the optional DF is used. **Caution** Before making this adjustment, ensure that the following adjustments have been made in maintenance mode. U053 ► U065 ► U070 **Method** Press the start key. The screen for executing is displayed. **Setting** 1. Change the setting using the cursor up/down keys.

Description	Setting range	Initial setting	Change in value per step
Original conveying motor speed	–25 to +25	0	0.1%

Increasing the setting makes the image longer, and decreasing it makes the image shorter.

2. Press the start key. The value is set.

Interrupt copy mode
While this maintenance item is being performed, copying from an original can be made in interrupt copy mode.

Completion
Press the stop/clear key at the screen for selecting an item. The screen for selecting a maintenance item No. is displayed.

Maintenance item No.	Description
U071	**Adjusting the DF scanning timing** **Description** Adjusts the DF original scanning timing. **Purpose** To be executed if there is a regular error between the leading or trailing edges of the original and the copy image when the optional DF is used. **Caution** Before making this adjustment, ensure that the following adjustments have been made in maintenance mode. U034 → U066 → U071 **Method** Press the start key. The screen for selecting an item is displayed. **Setting** 1. Select the item to be set. The selected item is displayed in reverse. 2. Change the setting using the cursor up/down keys.

Display	Description	Setting range	Initial setting	Change in value per step
LEAD EDGE ADJ	DF leading edge registration	–32 to +32	0	0.17 mm
TRAIL EDGE ADJ	DF trailing edge registration	–32 to +32	0	0.17 mm

Increasing the setting moves the copy image backward, and decreasing it moves the copy image forward.

3. Press the start key. The value is set.

Interrupt copy mode
While this maintenance item is being performed, copying from an original can be made in interrupt copy mode.

Adjustment
1. In interrupt copy mode, make a copy using the DF.
2. Check the copy image and adjust the registration as follows.
   For copy example 1, increase the setting of LEAD EDGE ADJ.
   For copy example 2, decrease the setting of LEAD EDGE ADJ.

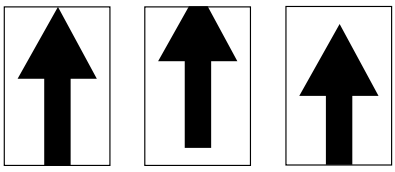


Figure 1-4-2

Completion
Press the stop/clear key at the screen for selecting an item. The screen for selecting a maintenance item No. is displayed.

Maintenance item No.	Description
U072	**Adjusting the DF center line** **Description** Adjusts the scanning start position for the DF original. **Purpose** To be executed if there is a regular error between the centers of the original and the copy image when the optional DF is used. **Caution** Before making this adjustment, ensure that the following adjustments have been made in maintenance mode. U034 → U067 → U072 **Method** Press the start key. The screen for executing is displayed. **Setting** 1. Change the setting using the cursor up/down keys.

Description	Setting range	Initial setting	Change in value per step
DF center line	–39 to +39	0	0.17 mm

Increasing the setting moves the image to the right, and decreasing it moves the image to the left.

2. Press the start key. The value is set.

Interrupt copy mode
While this maintenance item is being performed, copying from an original can be made in interrupt copy mode.

Adjustment
1. In interrupt copy mode, make a copy using the DF.
2. Check the copy image and adjust the center line as follows.
   For copy example 1, increase the setting.
   For copy example 2, decrease the setting.

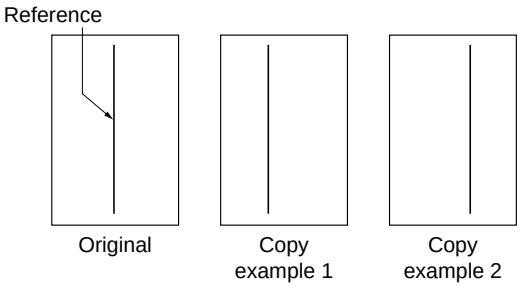


Figure 1-4-3

Completion
Press the stop/clear key at the screen for selecting an item. The screen for selecting a maintenance item No. is displayed.

Maintenance item No.	Description
U073	**Checking scanner operation** **Description** Simulates the scanner operation under arbitrary conditions. **Purpose** To check scanner operation. **Method** 1. Press the start key. The screen for selecting an item is displayed. 2. Select the item to be changed. The selected item is displayed in reverse. 3. Change the setting using the cursor up/down keys.

Display	Operating conditions	Setting range
ZOOM	Magnification	100 to 400%
SIZE	Original size	See below.
LAMP	On and off of the exposure lamp	0 (off) or 1 (on)

Original sizes for each setting in SIZE

Setting	Paper size	Setting	Paper size
8	A4	42	A5R
9	B5	47	Folio
24	11" × 8$^1/_2$"	52	11" × 17"
36	A3	53	11" × 15"
39	B4	55	8$^1/_2$" × 14"
40	A4R	56	8$^1/_2$" × 11"
41	B5R	58	5$^1/_2$" × 8$^1/_2$"

4. Press the strat key. The setting is set.
5. Press the interrupt key. The copy mode screen is displayed.
6. Press the start key. Scanning starts under the selected conditions.
7. To stop operation, press the stop/clear key.

Completion
Press the stop/clear key when scanning stops. The screen for selecting a maintenance item No. is displayed.

U074	**Adjusting the DF input light luminosity** **Description** Adjusts the luminosity of the exposure lamp for scanning originals from the optional DF. **Purpose** Used if the exposure amount differs significantly between when scanning an original on the contact glass and when scanning an original from the DF. **Method** Press the start key. The screen for executing is displayed. **Setting** 1. Change the setting using the cursor up/down keys.

Description	Setting range	Initial setting
DF input light luminosity	0 to 8	1

Increasing the setting makes the luminosity higher, and decreasing it makes the luminosity lower.

2. Press the start key. The value is set.

Interrupt copy mode
While this maintenance item is being performed, copying from an original can be made in interrupt copy mode.

Completion
Press the stop/clear key at the screen for selecting an item. The screen for selecting a maintenance item No. is displayed.

Maintenance item No.	Description
U087	**Turning the DF scanning position adjust mode on/off** **Description** Turns on or off the DF scanning position adjust mode, in which the DF original scanning position is adjusted automatically by determining the presence or absence of dust on the slit glass. Also changes the reference data for identifying dust. **Reference** In the DF original scanning position adjust mode, the presence or absence of dust is determined by comparing the scan data of the original trailing edge and that taken after the original is conveyed past the DF original scanning position. If dust is identified, the DF original scanning position is adjusted for the following originals. **Purpose** Used to prevent appearance of black lines due to dust adhering in the original scanning position on the slit glass when the DF is used. **Method** 1. Press the start key. The screen for selecting an item is displayed. 2. Select the item to be set and press the start key.

Display	Description
ON/OFF	Setting the mode on/off
DATA	Setting the reference data for identifying dust

Setting the mode on/off

1. Select ON or OFF. The selected item is displayed in reverse.

Display	Description
ON DF	scanning position adjust mode on
OFF DF	scanning position adjust mode off

Initial setting: ON

2. Press the start key. The setting is set. The screen for selecting an item is displayed.

Setting the reference data for identifying dust

Available only when the mode is turned on.

1.Change the setting using the cursor up/down keys.

Description	Setting range	Initial setting
Minimum density to be regarded as dust	10 to 95	35

Example

The figure indicates the density in 256 levels of gray (0: white, 255: black). When the setting is 35, data of the level of 35 or higher is regarded as dust and data of lower level is regarded as the background (scan data taken when there is no original).

2. Press the start key. The value is set.
3. To return to the screen for selecting an item, press the stop/clear key.

Completion

Press the stop/clear key at the screen for selecting an item. The screen for selecting a maintenance item No. is displayed.

<table>
<tr><th>Maintenance item No.</th><th>Description</th></tr>
<tr><td>U088</td><td>
Setting the input filter (moiré reduction mode)
Description
Turns moiré reduction mode on and off by switching the input filter on and off.
Purpose
Used to prevent regular density unevenness (moiré) on halftone image areas of the copy image in text mode and text and photo mode. Such moiré is more likely to appear when an enlargement or reduction copy is made in text mode from an original containing large halftone image areas.
Method
Press the start key. The screen for selecting an item is displayed.
Setting
1. Select ON or OFF. The selected item is displayed in reverse.
<table>
<tr><th>Display</th><th>Description</th></tr>
<tr><td>ON
OFF</td><td>Moiré reduction mode
Normal copy mode</td></tr>
</table>
Initial setting: OFF
If moiré on the copy image is significant, change the setting to ON. Note that when the moiré reduction mode is turned on, the resolution may be slightly reduced.
2. Press the start key. The value is set. The screen for selecting a maintenance item No. is displayed.
Completion
To exit this maintenance item without changing the current setting, press the stop/clear key. The screen for selecting a maintenance item No. is displayed.
</td></tr>
<tr><td>U089</td><td>
Outputting a MIP-PG pattern
Description
Selects and outputs the MIP-PG pattern created in the copier.
Purpose
When performing respective image printing adjustments, used to check the machine status apart from that of the scanner with a non-scanned output MIP-PG pattern.
Method
1. Press the start key.
2. Select the MIP-PG pattern to be output.
<table>
<tr><th>Display</th><th>Description</th><th>Adjusting range</th></tr>
<tr><td>GRAYSCALE</td><td>Gray scale</td><td>–</td></tr>
<tr><td>MONO-LEVEL</td><td>Mono level</td><td>0 to 255</td></tr>
<tr><td>256-LEVEL</td><td>256 level</td><td>–</td></tr>
<tr><td>1dot-LINE</td><td>1 dot level</td><td>–</td></tr>
</table>
3. Press the printer key to set the pattern output mode.
4. Press the start key. A MIP-PG pattern is output.
Completion
Press the stop/reset key. The screen for selecting a maintenance item No. is displayed.
</td></tr>
</table>

Maintenance item No.	Description
U091	**Checking shading** **Description** Performs scanning under the same conditions as before and after shading is performed, displaying the original scanning values at nine points of the contact glass. **Purpose** To check the change in original scanning values before and after shading. The results may be used to decide the causes for fixing unevenness (uneven density) of the gray area of an image: either due to optical (shading or CCD) or other problems. Also to check the causes for a white or black line appearing longitudinally. **Method** 1. Press the start key. The screen for selecting an item is displayed. 2. Select the item to be operated. The selected item is displayed in reverse.

Display	Description
SHD BEFORE	Performs scanning before shading and displays the result.
SHD AFTER	Performs scanning after shading and displays the result.

3. Press the start key. Scanning is performed under the selected conditions and the result is displayed.
   When scanning is performed before shading, the scan value at the machine center should be slightly different from those at the machine front and rear. When scanning is performed after shading, there should be no difference between respective values. Any differences between the values at machine front and rear indicates that scanner problem causes the fixing unevenness.
   If the displayed results indicate no shading problems, the fixing unevenness (uneven copy density) is caused by factors other than in the scanner section (shading or CCD).
   If a black line appears, the cause may assumed to be based on the results of the scanning operation before shading: if a white line appears, they may be assumed based on the results of the scanning operation after shading. Note that depending on the thickness and location of the black or white line, it may not be possible to use this method to determine the cause. This is because the displayed values obtained from scanning at the limit of nine points are insufficient to provide significant information.

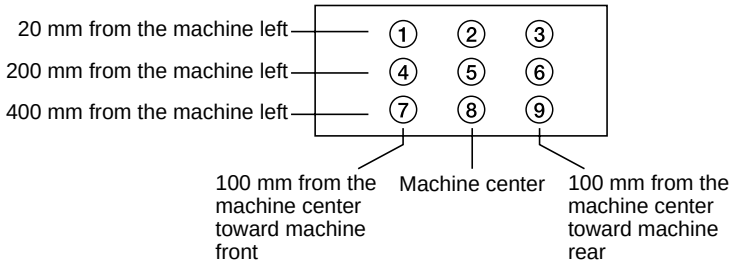


Figure 1-4-4

4. To return to the screen for selecting an item, press the stop/clear key.

Completion
Press the stop/clear key at the screen for selecting an item. The screen for entering a maintenance item is displayed.

Maintenance item No.	Description
U092	**Adjusting the scanner automatically** **Description** Makes auto scanner adjustments in the order below using the specified original. • Adjusting the scanner center line (U067) • Adjusting the scanner leading edge registration (U066) • Adjusting scanner magnification in the auxiliary direction (U065) When this maintenance item is performed, the settings in U065, U066 and U067 are also changed. **Purpose** Used to make respective auto adjustments for the scanner. **Method** 1. Place the specified original (P/N: 2A068020) on the contact glass. 2. Press the start key. The screen for executing is displayed. 3. Press the start key. Auto adjustment starts. When adjustment is complete, each adjusted value is displayed. **Display** / **Description** SCAN CENTER — Scanner center line SCAN TIMING — Scanner leading edge registration SUB SCAN — Scanner magnification in the auxiliary scanning direction If a problem occurs during auto adjustment, DATA: XX (XX is replaced by an error code) is displayed and operation stops. Should this happen, determine the details of the problem and either repeat the procedure from the beginning, or adjust the remaining items manually by running the corresponding maintenance items. **Completion** Press the stop/clear key after auto adjustment is complete. The screen for selecting a maintenance item No. is displayed. If the stop/clear key is pressed during auto adjustment, adjustment stops and no settings are changed.

Maintenance item No.	Description
U093	**Setting the exposure density gradient**

Description

Changes the exposure density gradient in manual density mode, depending on respective image modes (text, text and photo, photo).

Purpose

To set how the image density is altered by a change of one step in the manual density adjustment. Also used to make copy image darker or lighter.

Start

1. Press the start key. The screen for selecting an item is displayed.
2. Select the image mode to be adjusted and press the start key. The screen for the selected item is displayed.

Display	Description
MIXED	Density in text and photo mode
TEXT	Density in text mode
PHOTO	Density in photo mode

Setting

1. Select the item to be adjusted. The selected item is displayed in reverse.
2. Adjust the setting using the cursor up/down keys.

Display	Description	Setting range	Initial setting
DARKER	Change in density when manual density is set dark	0 to 3	0
LIGHTER	Change in density when manual density is set light	0 to 3	0

Increasing the setting makes the change in density larger, and decreasing it makes the change smaller.

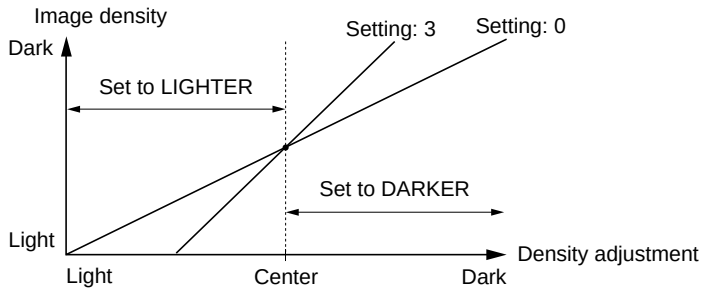


Figure 1-4-5 Exposure density gradient

3. Press the start key. The value is set.
4. To return to the screen for selecting an item, press the stop/clear key.

Interrupt copy mode

While this maintenance item is being performed, copying from an original can be made in interrupt copy mode.

Completion

Press the stop/clear key at the screen for selecting an item. The screen for selecting a maintenance item No. is displayed.

Maintenance item No.	Description
U099	**Checking and setting the original size detection sensor**

Description

Checks the operation of the original size detection sensor and sets the sensing threshold value.

Purpose

To adjust the sensitiveness of the sensor and size judgement time if the original size detection sensor malfunctions frequently due to incident light or the like.

Start

1. Press the start key. The screen for selecting an item is displayed.
2. Select an item and press the start key. The screen for executing each item is displayed.

Display	Description
DATA	Displaying detection sensor transmission data
B/W LEVEL	Setting detection sensor threshold value Setting original size judgment time

Method to display the data for the sensor

1. Press the start key. The detection sensor transmission data is displayed.

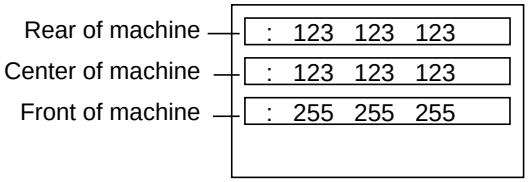


Figure 1-4-6

2. To return to the screen for selecting an item, press the stop/clear key.

Setting

1. Select an item to be set.

Display	Description	Setting range	Initial setting
LEVEL	Detection sensor threshold value	0 to 255	170
WAIT TIME	Original size judgment time*	0 to 100	50
ORIG. AREA	Original size detection position display (mm)	0 to 350	–
SIZE	Detected original size display	0 to 63	–

* Time from activation of the original detection switch (ODSW) to original size judgment

Method to set the detection threshold value

1. Adjust the preset value using the cursor up/down keys.
   * A larger value increases the sensor sensitivity, and a smaller value decreases it.
2. Press the start key. The value is set.
3. To return to the screen for selecting an item, press the stop/clear key.

Method to set the original size judgment time

1. Adjust the preset value using the cursor up/down keys.
   * A larger value increases the original size judgment time, and a smaller value decreases it.
2. Press the start key. The value is set.
3. To return to the screen for selecting an item, press the stop/clear key.

Completion

Press the stop/clear key at the screen for selecting an item. The screen for maintenance item No. is displayed.

<table>
<tr><th>Maintenance item No.</th><th>Description</th></tr>
<tr><td>U100</td><td>
Checking the operation of main high voltage
Description
Performs main charging.
Purpose
To check main charging.
Start
Press the start key. The screen for selecting an item is displayed.
<table>
<tr><th>Display</th><th>Description</th></tr>
<tr><td>MC DATA
ON TIME(SEC)</td><td>Turning the main charger on
Turning the main charger on and the laser scanner unit on and off</td></tr>
</table>
Method
1. Select the item to be operated.
2. Press the start key. The selected operation starts.
3. To stop operation, press the stop/clear key.
Completion
Press the stop/clear key at the screen for selecting an item when main charger output stops. The screen for selecting a maintenance item No. is displayed.
</td></tr>
<tr><td>U101</td><td>
Setting high voltages
Description
Changes the developing bias voltage and transfer voltage by changing the developing bias control voltage and transfer control voltage.
Purpose
To check or change the developing bias and transfer voltage.
Method
Press the start key. The screen for selecting an item is displayed.
Setting
1. Select the item to be set. The selected item is displayed in reverse.
2. Change the setting using the cursor up/down keys.
<table>
<tr><th>Display</th><th>Description</th><th>Setting range</th><th>Initial setting</th></tr>
<tr><td>DEV BIAS</td><td>Developing bias AC component frequency at image formation</td><td>0 to 255</td><td>33</td></tr>
<tr><td>DEV DUTY</td><td>Developing bias AC component duty at image formation</td><td>0 to 100</td><td>50</td></tr>
<tr><td>TC DATA</td><td>Transfer control voltage</td><td>0 to 255</td><td>132</td></tr>
</table>
Increasing the DEV BIAS setting makes the image darker; decreasing it makes the image lighter.
Increasing the DEV DUTY setting makes the image lighter; decreasing it makes the image darker.
Increasing the TC DATA setting makes the transfer voltage higher, and decreasing it makes the voltage lower.
3. Press the start key. The value is set.
Interrupt copy mode
While this maintenance item is being performed, copying from an original can be made in interrupt copy mode.
Completion
Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.
</td></tr>
</table>

<table>
<tr><th>Maintenance item No.</th><th>Description</th></tr>
<tr><td>U110</td><td>
Checking/clearing the drum count
Description
Displays the drum counts for checking, clearing or changing the figure, which is used as a reference when correcting the main charger potential output.
Purpose
To check the drum status. Also used to clear the count after replacing the drum during regular maintenance. Since the count was cleared before shipping, do not clear it when installing.
Method
Press the start key. The drum counter count is displayed.
Clearing
1. Press the reset key.
2. Press the start key. The count is cleared, and the screen for selecting a maintenance item No. is displayed.
Setting
1. Enter a six-digit count using the numeric keys.
2. Press the start key. The count is set, and the screen for selecting a maintenance item No. is displayed.
Completion
To exit the maintenance mode without changing the count, press the stop/clear key. The screen for selecting a maintenance item No. is displayed.
</td></tr>
<tr><td>U112</td><td>
Setting toner refresh operation
Description
Sets the drum refresh operation time and the developing bias on time at power on and after copying.
Purpose
To change the drum refresh operation time and the developing bias on time at power on and after copying if image flow level is low.
Method
Press the start key. The screen for executing is displayed.
Setting
1. Select the item to be set. The selected item is displayed in reverse.
2. Change the setting using the cursor up/down keys.
<table>
<tr><th>Display</th><th>Description</th><th>Setting range</th><th>Initial setting</th></tr>
<tr><td>ON TIME(SEC)
BIAS TIME(MSEC)</td><td>toner refresh operation time
Developing bias on time</td><td>50 to 150(sec)
500 to 1000(msec)</td><td>120
700</td></tr>
</table>
3. Press the start key. The value is set.
Completion
Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.
</td></tr>
</table>

<table>
<tr><th>Maintenance item No.</th><th>Description</th></tr>
<tr><td>U113</td><td>
Performing drum refresh operation
Description
Executes drum refresh operation.
Purpose
To operate when image flow occurs.
Method
1. Press the start key. The screen for executing is displayed.
2. Press the start key. Drum refresh operation starts. (approximately 3 minutes)
3. To stop the operation, press the stop/clear key.
Completion
Press the stop/clear key when the operation stops. The screen for selecting a maintenance item No. is displayed.
</td></tr>
<tr><td>U130</td><td>
Initial setting for the developer
Description
Replenishes toner to the developer unit to a certain level from the toner container that has been installed.
Purpose
To operate when installing the machine or replacing the developing unit.
Method
1. Press the start key. The screen for executing is displayed.
2. Press the start key. The time that elapses until initialization is complete and whether or not toner remains in the developing unit (0: No, 1: Yes) are displayed.
Supplement
The following data is also renewed or cleared by performing this maintenance item:
• Clearing the developing drive time (U157)
• Clearing the developing count (U158)
• Resetting the toner feed start level and toner empty detection
Completion
Press the stop/clear key after initial setting is complete. The screen for selecting a maintenance item No. is displayed.
</td></tr>
<tr><td>U144</td><td>
Setting toner loading operation
Description
Sets toner loading operation after completion of copying.
Purpose
To set whether or not toner is loaded on the drum after low density copying. Normally no change is necessary from the initial setting.
Method
1. Press the start key. The screen for selecting an item is displayed.
2. Select the item. The selected item is displayed im reverse.
<table>
<tr><th>Display</th><th>Description</th></tr>
<tr><td>MODE0
MODE1
MODE2</td><td>Toner not loaded
Toner not loaded
Toner loaded</td></tr>
</table>
Initial setting: MODE2
3. Press the start key. The value is set.
Completion
Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.
</td></tr>
</table>

<table>
<tr><th>Maintenance item No.</th><th>Description</th></tr>
<tr><td>U150</td><td>
Checking sensors and switches for toner
Description
Displays the on-off status of each sensor or switch related to toner.
Purpose
To check if the sensors and switches operate correctly.
Method
1. Press the start key. A list of the switches, the on-off status of which can be checked, are displayed.
2. Turn each switch on and off manually to check the status.
When the on-status of a switch is detected, that switch is displayed in reverse.
<table>
<tr><th>Display</th><th>Switches</th></tr>
<tr><td>DEVELOPER SENSOR
CONTAINER SET
CONTAINER SENSOR
DISPOSAL TANK SET
DISPOSAL TANK SENSOR</td><td>Toner sensor (TNS)
Toner container detection switch (TCDSW)
Toner container sensor (TCS)
Toner disposal tank detection switch (TDDSW)
Overflow sensor (OFS)</td></tr>
</table>
Completion
Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.
</td></tr>
<tr><td>U157</td><td>
Checking/clearing the developing drive time
Description
Displays the developing drive time for checking, clearing or changing a figure, which is used as a reference when correcting the toner control. It is automatically cleared when U130 is executed.
Purpose
To check the developing drive time after replacing the developing unit.
Method
Press the start key. The developing drive time is displayed in minutes.
Clearing
1. Press the reset key.
2. Press the start key. The time is cleared, and the screen for selecting a maintenance item No. is displayed.
Setting
1. Enter a five-digit drive time (in minutes) using the numeric keys.
2. Press the start key. The time is set, and the screen for selecting a maintenance item No. is displayed.
Completion
To exit this maintenance item without changing the time, press the stop/clear key. The screen for selecting a maintenance item No. is displayed.
</td></tr>
</table>

<table>
<tr><th>Maintenance item No.</th><th>Description</th></tr>
<tr><td>U158</td><td>
Checking/clearing the developing count
Description
Displays the developing count for checking, clearing or changing a figure, which is used as a reference when correcting the toner control. It is automatically cleared when U130 is executed.
Purpose
To check the developing count after replacing the developing unit.
Method
Press the start key. The developing count is displayed.
Clearing
1. Press the reset key.
2. Press the start key. The count is cleared, and the screen for selecting a maintenance item No. is displayed.
Setting
1. Enter a six-digit count using the numeric keys.
2. Press the start key. The count is cleared, and the screen for selecting a maintenance item No. is displayed.
Completion
To exit this maintenance item without changing the count, press the stop/clear key. The screen for selecting a maintenance item No. is displayed.
</td></tr>
<tr><td>U161</td><td>
Setting the fixing control temperature
Description
Changes the fixing control temperature.
Purpose
Normally no change is necessary. However, can be used to prevent curling or creasing of paper, or solve a fixing problem on thick paper.
Method
1. Press the start key. The screen for selecting an item is displayed.
2. Select the item to be set. The screen for executing each item is displayed.
<table>
<tr><th>Display</th><th>Description</th></tr>
<tr><td>CONTROL TEMP
CORRECT TEMP</td><td>Sets the fixing control temperature.</td></tr>
</table>
Setting the fixing control temperature
1. Select the item to be set. The selecting item is displayed in reverse.
2. Change the setting using the cursor up/down keys.
<table>
<tr><th>Display</th><th>Description</th><th>Setting range</th><th>Initial setting</th></tr>
<tr><td>CONT TEMP
1ST TEMP
2ND TEMP</td><td>Control temperature during copying
Primary stabilization fixing temperature
Secondary stabilization fixing temperature</td><td>100 to 200 (°C)
100 to 200 (°C)
100 to 200 (°C)</td><td>155
120
155</td></tr>
</table>
The respective temperatures are to be set such that 2ND TEMP ≥ 1ST TEMP.
3. Press the start key. The value is set.
</td></tr>
</table>

<table>
<tr><th>Maintenance item No.</th><th>Description</th></tr>
<tr><td>U161</td><td>
Setting
1. Select the item to be set. The selecting item is displayed in reverse.
2. Change the setting using the cursor up/down keys.
<table>
<tr><th>Display</th><th>Description</th><th>Setting range</th></tr>
<tr><td>COPY UP TEMP(L)</td><td>Fixing control temperature for large size copying</td><td>-30 to +30 (°C)</td></tr>
<tr><td>COPY UP TEMP(M)</td><td>Fixing control temperature for middle size copying</td><td>-30 to +30 (°C)</td></tr>
<tr><td>COPY UP TEMP(S)</td><td>Fixing control temperature for small size copying</td><td>-30 to +30 (°C)</td></tr>
<tr><td>L/L UP TEMP</td><td>Fixing temperature increase amount at low temperature and low humidity</td><td>0 to +20 (°C)</td></tr>
<tr><td>H/H DOWN TEMP</td><td>Fixing temperature decrease amount at high temperature and high humidity</td><td>0 to +20 (°C)</td></tr>
<tr><td>DUP DOWN TEMP</td><td>Fixing temperature decrease amount for duplex copying</td><td>0 to +20 (°C)</td></tr>
</table>
3. Press the start key. The value is set.
Interrrupt copy mode
While this maintenance item is being performed, copying from an original can be made in interrupt copy mode.
Completion
Press the stop/clear key at the screen for selecting an item. The screen for selecting a maintenance item No. is displayed.
</td></tr>
<tr><td>U162</td><td>
Stabilizing fixing forcibly
Description
Stops the stabilization fixing drive forcibly, regardless of fixing temperature.
Purpose
To forcibly stabilize the machine before the fixing section reaches stabilization temperature.
Method
1. Press the start key. The screen for executing is displayed.
2. Press the start key. The forced stabilization mode is entered, and stabilization operation stops regardless of fixing temperature. The screen for selecting a maintenance item No. is displayed.
To exit the forced stabilization mode, turn the power off and on.
Completion
To exit this maintenance item without executing forced fixing stabilization, press the stop/clear key.The screen for selecting a maintenance item No. is displayed.
</td></tr>
<tr><td>U163</td><td>
Resetting the fixing problem data
Description
Resets the detection of a service call code indicating a problem in the fixing section.
Purpose
To prevent accidents due to an abnormally high fixing temperature.
Method
1. Press the start key. The screen for executing is displayed.
2. Press CANCEL on the touch panel.
3. Press the start key. The fixing problem data is initialized.
Completion
Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.
</td></tr>
</table>

<table>
<tr><th>Maintenance item No.</th><th>Description</th></tr>
<tr><td>U165</td><td>
Checking/clearing fixing counts
Description
Displays or clears fixing counts.
Purpose
To check fixing counts after replacing the fixing unit.
Method
Press the start key. The fixing counts are displayed.
Clearing
1. Press the reset key.
2. Press the start key. The count is cleared, and the screen for selecting a maintenance item No. is displayed.
Setting
1. Enter a four-digit value using the numeric keys.
2. Press the start key. The value is set. The screen for selecting a maintenance item No. is displayed.
Completion
To exit this maintenance item without changing the current value, press the stop/clear key. The screen for selecting a maintenance item No. is displayed.
</td></tr>
<tr><td>U196</td><td>
Turning the fixing heater on
Description
Turns the fixing heater M or S on.
Purpose
To check fixing heaters turning on.
Method
1. Press the start key. The screen for selecting an item is displayed.
2. Select the heater to be turned on. The selected heater turns on for 3 s and then turns off.
<table>
<tr><th>Display</th><th>Description</th></tr>
<tr><td>MAIN
SUB</td><td>Fixing heater M (FH-M)
Fixing heater S (FH-S)</td></tr>
</table>
Completion
Press the stop/clear key when fixing motors M and S are off. The screen for selecting the maintenance item No. is displayed.
</td></tr>
<tr><td>U199</td><td>
Checking the fixing temperature
Description
Displays the fixing temperature, the ambient temperature and the absolute humidity.
Purpose
To check the fixing temperature, the ambient temperature and the absolute humidity.
Method
Press the start key. The fixing temperature and ambient temperature are displayed in centigrade (°C) and the absolute humidity is displayed in percentage (%).
<table>
<tr><th>Display</th><th>Description</th></tr>
<tr><td>FIX TEMP
SURROUND TEMP
HUMIDITY</td><td>Fixing temperature (°C)
Ambient temperature (°C)
Absolute humidity (%)</td></tr>
</table>
Completion
Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.
</td></tr>
</table>

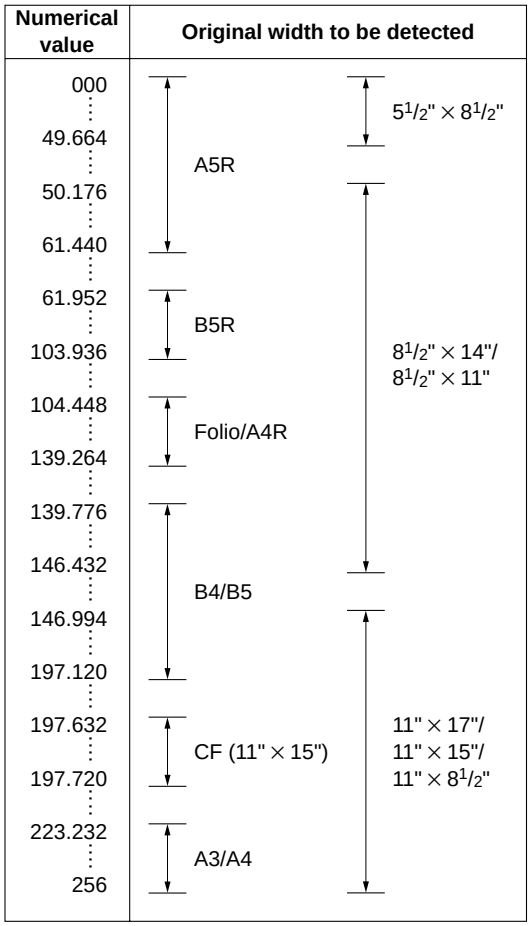
Maintenance item No.	Description
U200	**Turning all LEDs on** **Description** Turns all the LEDs on the operation panel on. **Purpose** To check if all the LEDs on the operation panel light. **Method** Press the start key. All the LEDs on the operation panel light. Press the stop/clear key or wait for 10 s. The LEDs turns off, and the screen for selecting a maintenance item No. is displayed.
U201	**Initializing the touch panel** **Description** Automatically correct the positions of the X- and Y-axes of the touch panel. **Purpose** To automatically correct the display positions on the touch panel after it is replaced. **Method** 1. Press the start key. The screen for executing is displayed, and the + key displayed at the upper left of the touch panel flashes. 2. Press on the center of the + key. The + key on lower right flashes. 3. Press the center of the flashing +. Initialization of the touch panel is complete, and the screen for selecting a maintenance item No. is displayed. **Completion** To exit this maintenance item without initializing, press the stop/clear key. The screen for selecting a maintenance mode No. is displayed.
U202	**Setting the KMAS host monitoring system** **Description** Initializes or operates the KMAS host monitoring system. This is an optional device which is currently supported only by Japanese specification machines, so no setting is necessary.

<table>
<tr><th>Maintenance item No.</th><th>Description</th></tr>
<tr><td>U203</td><td>
Operating DF separately
Description
Simulates the original conveying operation separately in the optional DF.
Purpose
To check the DF.
Method
1. Press the start key. The screen for selecting an item is displayed.
2. Place an original in the DF if running this simulation with paper.
3. Select the item to be operated. The selected item is displayed in reverse.
<table>
<tr><th>Display</th><th>Operation</th></tr>
<tr><td>ADF
RADF
ADF (NON-P)
RADF (NON-P)</td><td>With paper, single-sided original
With paper, double-sided original
Without paper, single-sided original (continuous operation)
Without paper, double-sided original (continuous operation)</td></tr>
</table>
4. Press the start key. The operation starts.
5. To stop continuous operation, press the stop/clear key.
Completion
Press the stop/clear key when the operation stops. The screen for selecting a maintenance item No. is displayed.
</td></tr>
<tr><td>U204</td><td>
Setting the presence or absence of a key card or key counter
Description
Sets the presence or absence of the optional key card or key counter.
Purpose
To run this maintenance item if a key card or key counter is installed.
Method
Press the start key. The screen for selecting an item is displayed
Setting
1. Select the optional counter to be installed using the cursor up/down keys. The selected counter is displayed in reverse.
<table>
<tr><th>Display</th><th>Description</th></tr>
<tr><td>KEY-CARD
KEY-COUNTER</td><td>The key card is installed
The key counter is installed</td></tr>
</table>
2. Press the start key. The setting is set and the screen for selecting a maintenance item No. is displayed.
Completion
To exit this maintenance item without changing the current setting, press the stop/clear key. The screen for selecting a maintenance item No. is displayed.
</td></tr>
</table>

<table>
<tr><th>Maintenance item No.</th><th>Description</th></tr>
<tr><td>U206</td><td>Setting the presence or absence of the coin vender
Description
Sets the presence or absence of the optional coin vender. Also sets the details for coin vender operation, such as mode and unit price.
This is an optional device which is currently supported only by Japanese specification machines, so no setting is necessary.</td></tr>
<tr><td>U207</td><td>Checking the operation panel keys
Description
Checks operation of the operation panel keys.
Purpose
To check operation of all the keys and LEDs on the operation panel.
Method
1. Press the start key. The screen for executing is displayed.
2. "COUNT1" is displayed and the leftmost LED on the operation panel lights.
3. As the keys lined up in the same line as the lit indicator are pressed in the order from the top to the bottom, the figure shown on the touch panel increases in increments of 1. When all the keys in that line are pressed and if there are any LEDs corresponding to the keys in the line on the immediate right, the top LED in that line will light.
4. When all the keys on the operation panel have been pressed, all the LEDs light for up to 10 seconds.
5. When the LEDs go off, press the start key. All the LEDs light for 10 seconds again.
Completion
Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.</td></tr>
<tr><td>U208</td><td>Setting the paper size for the large paper deck
Description
Sets the size of paper used in the optional large paper deck. Note that the setting cannot be changed on inch-specification machines since the paper size for the large paper deck is fixed.
Purpose
To change the setting when the size of paper used in the large paper deck is changed.
Method
Press the start key. The screen for selecting an item is displayed.
Setting
1. Select the paper size (A4 or A5). The selected item is displayed in reverse.
Initial setting: A4
2. Press the start key. The setting is set.
Completion
Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.</td></tr>
<tr><td>U211</td><td>Setting DF type
Descrioption
Sets the optional DF type (STDF or SRDF). (For 25 cpm copier only)
Purpose
To set DF type when installing.
Method
Press the start key. The screen for selecting an item is displayed.
Setting
1. Select DF type. The selected item is displayed in reverse.
<table><tr><th>Display</th><th>Description</th></tr><tr><td>SADF
SRADF</td><td>Single-sided (STDF)
Double-sided (SRDF)</td></tr></table>2. Press the start key. The type is set.
Completion
Press the stop/clear key. The screen for selectiong a maintenance item No. is displayed.</td></tr>
</table>

<table>
<tr><th>Maintenance item No.</th><th>Description</th></tr>
<tr><td>U217</td><td>
Setting 8 1/2" × 13" paper
Description
Turn on the setting when using 8 1/2" × 13" paper.
Purpose
To change the setting as needed.
Method
Press the start key. The screen for selscting an item is displayed.
Setting
1. Select ON or OFF. The selected item is displayed in reverse.
<table>
<tr><th>Display</th><th>Description</th></tr>
<tr><td>ON
OFF</td><td>8 1/2" × 13" paper is used.
8 1/2" × 13" paper is not used.</td></tr>
</table>
2. Press the start key. The value is set. The screen for selecting a maintenance item No. is displayed.
Completion
To exit this maintenance item without changing the current setting, press the stop/clear key. The screen for selecting a maintenance item No. is displayed.
</td></tr>
<tr><td>U237</td><td>
Setting finisher stack quantity
Description
Sets the number of sheets of each stack on the main tray and on the intermediate tray in the optional finisher.
Purpose
To change the setting when a stack malfunction has occurred.
Method
1. Press the start key. The screen for selecting an item is displayed.
2. Select the item to be set. The selected item is displayed in reverse.
<table>
<tr><th>Display</th><th>Description</th></tr>
<tr><td>MAIN TRAY
MIDDLE TRAY</td><td>Number of sheets of stack on the main tray
Number of sheets of stack on the intermediate tray for sort copying or staple copying</td></tr>
</table>
Setting the number of sheets of stack on the main tray
1. Change the setting using the cursor up/down keys.
<table>
<tr><th>Setting</th><th>Description</th></tr>
<tr><td>0
1</td><td>3000-sheet finisher: 1500 sheets, built-in finisher: 250 sheets
3000-sheet finisher: 3000 sheets, built-in finisher: 500 sheets</td></tr>
</table>
Initial setting: 1
2. Press the start key. The setting is set.
Setting the number of sheets of stack on the intermediate tray for sort copying or staple copying
1. Change the setting using the cursor up/down keys.
<table>
<tr><th>Setting</th><th>Description</th></tr>
<tr><td>0
1</td><td>For sort copying: 30 sheets, for staple copying: 50 sheets
For sort copying: 30 sheets, for staple copying: 30 sheets</td></tr>
</table>
Initial setting: 1
2. Press the start key. The setting is set.
Completion
Press the stop/clear key. The screen for selectiong a maintenance item No. is displayed.
</td></tr>
</table>

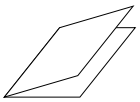
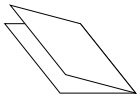
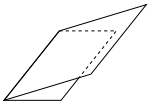
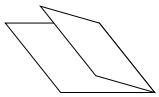
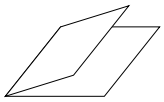
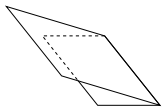
<table>
<tr><th>Maintenance item No.</th><th>Description</th></tr>
<tr><td>U243</td><td>
Checking the operation of the DF motors, solenoids and clutch
Description
Turns the motors, solenoids or clutch in the optional DF on.
Purpose
To check the operation of the DF motors, solenoids and clutch .
Method
1. Press the start key. The screen for selecting an item is displayed.
2. Select the item to be operated. The selected item is displayed in reverse and the operation starts.
<table>
<tr><th>Display</th><th>Motors, solenoids and clutch</th><th>Operation In operation</th></tr>
<tr><td>F MOT</td><td>Original feed motor (OFM)</td><td>In operation</td></tr>
<tr><td>C MOT</td><td>Original paper conveying motor (OCM)</td><td>On for 0.5 s</td></tr>
<tr><td>FD CL</td><td>Original feed clutch (OFCL)</td><td>On for 0.5 s</td></tr>
<tr><td>EJ SL</td><td>Eject feedshift solenoid (EFSSOL)</td><td>On for 0.5 s</td></tr>
<tr><td>RJ SL</td><td>Switchback feedshift solenoid (SBFSSOL)</td><td>On for 0.5 s</td></tr>
<tr><td>FD SL</td><td>Original feed solenoid (OFSOL)</td><td>On and off</td></tr>
<tr><td>RP SL</td><td>Switchback pressure solenoid (SBPSOL)</td><td>On and off</td></tr>
</table>
3. To turn each motor off, press the stop/clear key.
Completion
Press the stop/clear key when operation stops. The screen for selecting a maintenance item No. is displayed.
</td></tr>
<tr><td>U244</td><td>
Checking the DF switches
Description
Displays the status of the respective switches in the optional DF.
Purpose
To check if respective switches in the optional DF operate correctly.
Start
1. Press the start key. The screen for selecting an item is displayed.
2. Select the type of switches (SW or VR) to be checked. The screen for executing each item is displayed.
<table>
<tr><th>Display</th><th>Type of switches</th></tr>
<tr><td>SW</td><td>On/off switches</td></tr>
<tr><td>VR</td><td>Volume switch</td></tr>
</table>
Method for the on/off switches
1. Turn the respective switches on and off manually to check the status.
If the on-status of a switch is detected, the corresponding switch is displayed in reverse.
<table>
<tr><th>Display</th><th>Switches</th></tr>
<tr><td>SET</td><td>Original set switch (OSSW)</td></tr>
<tr><td>FEED</td><td>Original feed switch (OFSW)</td></tr>
<tr><td>REV</td><td>Original switchback switch (OSBSW)</td></tr>
<tr><td>TMG</td><td>DF timing switch (DFTSW)</td></tr>
<tr><td>SZ A</td><td>Original size length switch (OSLSW)</td></tr>
</table>
2. To return to the screen for selecting an item, press the stop/clear key.
</td></tr>
</table>

Maintenance item No.	Description
U244	**Method for the volume switch** 1. Move the original insertion guides to check the detection status of the original size width switch. The detected original width is displayed as a numerical value with the decimals omitted.  For example, if any value between 105 and 139 is displayed when the original insertion guides are adjusted for A4R paper, it indicates that the original width is detected correctly. 2. To return to the screen for selecting an item, press the stop/clear key. **Completion** Press the stop/clear key at the screen for selecting an item. The screen for selecting a maintenance item No. is displayed.

<table>
<tr><th>Maintenance item No.</th><th>Description</th></tr>
<tr><td>U245</td><td>
Checking messages
Description
Displays a list of messages on the touch panel of the operation panel.
Purpose
To check the messages to be displayed.
Method
1. Press the start key.
2. Select the item to be displayed.
3. Change the screen using the cursor up/down keys to display each message one at a time.
When a message number is entered with the numeric keys and then the start key is pressed, the message corresponding the specified number is displayed.
Completion
Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.
</td></tr>
<tr><td>U246</td><td>
Setting the finisher
Description
Adjusts the amount of slack in the paper for the optional finisher in punch mode when it is attached. Also adjusts the booklet stapling position for each paper size when the optional booklet stitcher is attached.
Purpose
• Adjustment of the amount of slack in the paper in punch mode
Adjusts the amount of slack in the paper while in the punch section if, in punch mode, paper jams or is Z-folded frequently due to too much slack in the paper, or, the position of punch holes varies due to too little slack in the paper.
• Booklet stapling position adjustment
Adjusts the booklet stapling position in the stitching mode if the position is not proper.
Start
1. Press the start key. The screen for selecting an item is displayed.
2. Select the item to be set and press the start key. The screen for executing each item is displayed.
<table>
<tr><th>Display</th><th>Description</th></tr>
<tr><td>3000 FINISHER
SADDLE FINISHER</td><td>Adjustment of the amount of slack in the paper in punch mode
Booklet stapling position adjustment</td></tr>
</table>
Setting the amount of slack in the paper
1. Change the setting using the cursor up/down keys.
<table>
<tr><th>Description</th><th>Setting range</th><th>Initial setting</th></tr>
<tr><td>Amount of slack in the paper</td><td>-15 to +15</td><td>0</td></tr>
</table>
If the position of punch holes varies, increase the setting to make the amount of slack larger.
If paper jams or is Z-folded frequently, decrease the setting to make the amount of slack smaller.
2. Press the start key. The value is set.
3. To return to the screen for selecting an item, press the stop/clear key.
Setting the booklet stapling position
1. Select the size to be set. The selected item is displayed in reverse.
2. Change the setting using the cursor up/down keys.
<table>
<tr><th>Display</th><th>Description</th><th>Setting range</th><th>Initial setting</th><th>Change in value per step</th></tr>
<tr><td>A4R</td><td>Adjustment of booklet stapling position for A4R size</td><td>–125 to +125</td><td>0</td><td>0.25 mm</td></tr>
<tr><td>B4R</td><td>Adjustment of booklet stapling position for B4R size</td><td>–125 to +125</td><td>0</td><td>0.25 mm</td></tr>
<tr><td>A3R/LDR</td><td>Adjustment of booklet stapling position for A3R/LDR size</td><td>–125 to +125</td><td>0</td><td>0.25 mm</td></tr>
</table>
</td></tr>
</table>

Maintenance item No.	Description

U246

Left stapling	Right stapling	Adjustment method
		Proper
 Upper side is longer.	 Lower side is longer.	Decrease the preset value.
 Lower side is longer.	 Upper side is longer.	Increase the preset value.

3. Press the start key. The value is set.
4. To return to the screen for selecting an item, press the stop/clear key.

Completion

Press the stop/clear key at the screen for selecting an item. The screen for selecting a maintenance item No. is displayed.

U247

Checking the operation of large paper deck and paper feed desk

Description

Turns on motors and clutches of optional large paper deck or paper feed desk.

Purpose

To check the operation of motors and clutches of paper feed device.

Start

1. Press the start key. The screen for selecting an item is displayed.
2. Select the device to be checked.

Display	Paper feed device
3000 DECK	Large paer deck
500 × 2 DECK	Paper feed desk

Method

1. Select the item to be operated. The selected item is displayed in reverse and operation starts.

Large paper deck

Display	Motors and clutches	Operation
LCF MOT	Conveying motor (CM)	On for 5 s
B CL	Conveying clutch (CCL)	On for 1 s
PCL1	Paper feed clutch 1(PFCL1)	On for 1 s
PCL2	Paper feed clutch 2(PFCL2)	On for 1 s

Paper feed desk

Display	Motors and clutches	Operation
DESK MOT	Desk Drive motor (DDM)	On for 5 s
FEED CL	Desk feed clutch (DFCL)	On for 1 s
UPP CL	Desk upper paper feed clutch (DPFCL-U)	On for 1 s
LOW CL	Desk lower paper feed clutch (DPFCL-L)	On for 1 s

<table>
<tr><th>Maintenance item No.</th><th>Description</th></tr>
<tr><td>U247</td><td>2. To return to the screen for selecting an item, press the stop/clear key.
Completion
Press the stop/clear key at the screen for selecting an item. The screen for selecting a maintenance item No. is displayed.</td></tr>
<tr><td>U249</td><td>Checking the paper ejection to optional devices
Description
Ejects paper to an optional mailbox or job separator, or to the ejection slot at the machine left.
Purpose
To check paper conveying operation to optional paper eject devices or the ejection slot at the machine left.
Method
1. Press the start key. The screen for selecting an item is displayed.
2. Select the paper eject location.
<table>
<tr><th>Display</th><th>Paper eject device</th></tr>
<tr><td>MAIL
JOB SEPARATOR
LEFT BIN OUTPUT</td><td>BOX Mailbox
Job separator
Ejection slot at the machine left (finisher not installed)</td></tr>
</table>
3. When selecting the mailbox, specify the mail tray number (1 to 7) to which paper is to be ejected by using the cursor up/down keys. If 0 is selected, paper is ejected to the mail trays in ascending order from mail tray 1 to mail tray 7 repeatedly.
Interrupt copy mode
While this maintenance item is being performed, copying from an original can be made in interrupt copy mode.
Completion
Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.</td></tr>
<tr><td>U250</td><td>Setting the maintenance cycle
Description
Displays and changes the maintenance cycle.
Purpose
To check and change the maintenance cycle.
Method
Press the start key. The current setting is displayed as follows:
Setting
1. Change the setting using the numeric keys.
<table>
<tr><th>Description</th><th>Setting range</th><th>Initial setting</th></tr>
<tr><td>Maintenance cycle</td><td>0 to 600000</td><td>500000 (35 cpm) 400000 (25 cpm)</td></tr>
</table>
2. Press the start key. The value is set, and the screen for selecting a maintenance item No. is displayed.
Completion
To exit this maintenance item without changing the current setting, press the stop/clear key. The screen for selecting a maintenance item No. is displayed.</td></tr>
</table>

<table>
<tr><th>Maintenance item No.</th><th>Description</th></tr>
<tr><td>U251</td><td>
Checking/clearing the maintenance count
Description
Displays, clears and changes the maintenance count.
Purpose
To check the maintenance count. Also to clear the count during maintenance service.
Method
Press the start key. The maintenance count is displayed.
Clearing
1. Press the reset key.
2. Press the start key. The count is cleared, and the screen for selecting a maintenance item No. is displayed.
Setting
1. Enter a six-digit count using the numeric keys.
2. Press the start key. The count is set, and the screen for selecting a maintenance item No. is displayed.
Completion
To exit this maintenance item without changing the count, press the stop/clear key. The screen for selecting a maintenance item No. is displayed.
</td></tr>
<tr><td>U252</td><td>
Setting the destination
Description
Switches the operations and screens of the machine according to the destination.
Purpose
To be executed after replacing the backup RAM on the main PCB or initializing the backup RAM by running maintenance item U020, in order to return the setting to the value before replacement or initialization.
Method
Press the start key. The screen for selecting an item is displayed.
Setting
1. Select the destination. The selected item is displayed in reverse.
<table>
<tr><th>Display</th><th>Description</th></tr>
<tr><td>JAPAN METRIC
INCH
EUROPE METRIC
ASIA PACIFIC</td><td>Metric (Japan) specifications
Inch (North America) specifications
Metric (Europe) specifications
Metric (Asia Pacific) specifications</td></tr>
</table>
2. Press the start key. The setting is set, and the machine automatically returns to the same status as when the power is turned on.
Completion
To exit this maintenance item without changing the current count, press the stop/clear key. The screen for selecting a maintenance item No. is displayed.
Supplement
The specified initial settings are provided according to the destinations in the maintenance items below. To change the initial settings in those items, be sure to run maintenance item U021 after changing the destination.
• Initial setting according to the destinations
<table>
<tr><th>Maintenance item No.</th><th>Title</th><th>Japan</th><th>Inch</th><th>Europe Metric, Asia Pacific</th></tr>
<tr><td>253
255</td><td>Switching between double and single counts
Setting auto clear time</td><td>Single
120 s</td><td>Double
90 s</td><td>Double
90 s</td></tr>
</table>
</td></tr>
</table>

<table>
<tr><th>Maintenance item No.</th><th>Description</th></tr>
<tr><td>U253</td><td>
Switching between double and single counts
Description
Switches the count system for the total counter and other counters.
Purpose
According to user (copy service provider) request, select if A3/11" × 17" paper is to be counted as one sheet (single count) or two sheets (double count).
Method
Press the start key. The screen for selecting an item is displayed.
Setting
1. Select double or single count. The selected item is displayed in reverse.
<table>
<tr><th>Display</th><th>Description</th></tr>
<tr><td>DOUBLE COUNT
SINGLE COUNT</td><td>Double count for A3/11" × 17" paper only
Single count for all size paper</td></tr>
</table>
Initial setting: DOUBLE COUNT
2. Press the start key. The setting is set, and the screen for selecting a maintenance item No. is displayed.
Completion
To exit this maintenance item without changing the current setting, press the stop/clear key. The screen for selecting a maintenance item No. is displayed.
</td></tr>
<tr><td>U254</td><td>
Turning auto start function on/off
Description
Selects if the auto start function is turned on.
Purpose
Normally no change is necessary. If incorrect operation occurs, turn the function off: this may solve the problem.
Method
Press the start key. The screen for selecting an item is displayed.
Setting
1. Select either ON or OFF. The selected item is displayed in reverse.
<table>
<tr><th>Display</th><th>Description</th></tr>
<tr><td>ON
OFF</td><td>Auto start function on
Auto start function off</td></tr>
</table>
Initial setting: ON
2. Press the start key. The setting is set, and the screen for selecting a maintenance item No. is displayed.
Completion
To exit this maintenance item without changing the current setting, press the stop/clear key. The screen for selecting a maintenance item No. is displayed.
</td></tr>
</table>

<table>
<tr><th>Maintenance item No.</th><th>Description</th></tr>
<tr><td>U255</td><td>
Setting auto clear time
Description
Sets the time to return to initial settings after copying is complete.
Purpose
To be set according to frequency of use. Set to a comparatively long time for continuous copying at the same settings, and a comparatively short time for frequent copying at various settings.
Method
Press the start key. The current setting is displayed.
Setting
1. Change the setting using the cursor up/down keys.
<table>
<tr><th>Description</th><th>Setting range</th><th>Initial setting</th></tr>
<tr><td>Auto clear time</td><td>0 to 270</td><td>90</td></tr>
</table>
The setting can be changed by 30 s per step.
When set to 0, the auto clear function is cancelled.
2. Press the start key. The value is set, and the screen for selecting a maintenance item No. is displayed.
Completion
To exit this maintenance item without changing the current setting, press the stop/clear key. The screen for selecting a maintenance item No. is displayed.
</td></tr>
<tr><td>U256</td><td>
Turning auto preheat/energy saver function on/off
Description
Selects if the auto preheat/energy saver function is turned on. When set to ON, the time to enter preheat/energy saver mode can be changed in copy management mode.
Purpose
According to user request, to set the preheat time to save energy, or enable copying promptly without the recovery time from preheat mode.
Method
Press the start key. The screen for selecting an item is displayed.
Setting
1. Select ON or OFF. The selected item is displayed in reverse.
<table>
<tr><th>Display</th><th>Description</th></tr>
<tr><td>ON
OFF</td><td>Auto preheat/energy saver function on
Auto preheat/energy saver function off</td></tr>
</table>
Initial setting: ON
2. Press the start key. The setting is set, and the screen for selecting a maintenance item No. is displayed. When the setting is changed from OFF to ON, the auto preheat time is set to the initial setting of 15 minutes.
Completion
To exit this maintenance item without changing the current setting, press the stop/clear key. The screen for selecting a maintenance item No. is displayed.
</td></tr>
</table>

<table>
<tr><th>Maintenance item No.</th><th>Description</th></tr>
<tr><td>U258</td><td>
Switching copy operation at toner empty detection
Description
Selects if continuous copying is enabled after toner empty is detected, and sets the number of copies that can be made after the detection.
Method
Press the start key. The current setting is displayed.
Setting
1. Select single or continuous copying. The selected item is displayed in reverse.
<table>
<tr><th>Display</th><th>Description</th></tr>
<tr><td>SINGLE
CONTINUE</td><td>Enables only single copying.
Enables single and continuous copying.</td></tr>
</table>
Initial setting: SINGLE
2. Set the number of copies that can be made using the cursor up/down keys.
<table>
<tr><th>Description</th><th>Setting range</th><th>Initial setting</th></tr>
<tr><td>Number of copies after toner empty detection</td><td>0 to 200 (copies)</td><td>0</td></tr>
</table>
The setting can be changed by 5 copies per step.
When set to 0, the number of copies is not limited regardless of the setting for single or continuous copying.
3. Press the start key. The setting is set, and the screen for selecting a maintenance item No. is displayed.
Completion
To exit this maintenance item without changing the current setting, press the stop/clear key. The screen for selecting a maintenance item No. is displayed.
</td></tr>
<tr><td>U260</td><td>
Changing the copy count timing
Description
Changes the copy count timing for the total counter and other counters.
Purpose
To be set according to user (copy service provider) request.
If a paper jam occurs frequently in the finisher when the number of copies is counted at the time of paper ejection, copies are provided without copy counts. The copy service provider cannot charge for such copying. To prevent this, the copy timing should be made earlier.
If a paper jam occurs frequently in the paper conveying or fixing sections when the number of copies is counted before the paper reaches those sections, copying is charged without a copy being made. To prevent this, the copy timing should be made later.
Method
Press the start key. The screen for selecting an item is displayed.
Setting
1. Select the copy count timing . The selected item is displayed in reverse.
<table>
<tr><th>Display</th><th>Description</th></tr>
<tr><td>FEED
EJECT</td><td>When secondary paper feed starts
When the paper is ejected</td></tr>
</table>
Initial setting: EJECT
2. Press the start key. The setting is set, and the screen for selecting a maintenance item No. is displayed.
Completion
To exit this maintenance item without changing the current setting, press the stop/clear key. The screen for selecting a maintenance item No. is displayed.
</td></tr>
</table>

Maintenance item No.	Description
U265	**Setting OEM purchaser code** **Description** Sets the OEM purchaser code. **Purpose** Sets the code when replacing the main PCB and the like. **Method** Press the start key. **Setting** 1. Use the numeric keys or cursor up/down keys to adjust the preset value. 2. Press the start key. The count is set , and the screen for selecting a maintenance item is displayed. **Completion** To exit this maintenance item without changing the current setting, press the stop/clear key. The screen for selecting a maintenance item is displayed.
U330	**Setting the number of sheets to enter stacking mode during sort operation** **Description** When sort copying is set to perform automatically in the output form setting of the user simulation, sets the number of sheets at which the eject location is switched to the optional finisher (only when the finisher is installed). **Purpose** To be set as required according to the number of copies the user makes. **Method** Press the start key. The current setting is displayed. **Setting** 1. Set the number of sheets (o to 250) using the numeric keys or cursor up/down keys. 2. Press the start key. The setting is set. The screen for selecting a maintenance item No. is displayed. **Completion** To exit this maintenance item without changing the current setting, press the stop/clear key. The screen for selecting a maintenance item No. is displayed.

<table>
<tr><th>Maintenance item No.</th><th>Description</th></tr>
<tr><td>U332</td><td>
Setting the size conversion factor
Description
Sets the factor for converting each paper size into A4/11" × 8 1/2". The black ratio is converted for the A4/11" × 8 1/2" size using the factor set in this maintenance item. Values set are displayed in the user simulation.
Purpose
To set the factor to convert the black ratio of each paper size for A4/11" × 8 1/2" size.
Method
1. Press the start key. The screen for selecting an item is displayed.
2. Select the paper size.
3. Change the setting using the cursor up/down keys.
The size conversion factor can be set separately for the copier mode (COPY), the printer mode (PRI) and the fax mode (FAX) at the screen for setting the size conversion factor.
Metric models
<table>
<tr><th rowspan="2">Display</th><th rowspan="2">Description</th><th rowspan="2">Setting</th><th colspan="3">Initial setting</th></tr>
<tr><th>COPY</th><th>PRI</th><th>FAX</th></tr>
<tr><td>A3</td><td>Size conversion factor for A3</td><td>0.0 to 3.0</td><td>2.0</td><td>2.0</td><td>2.0</td></tr>
<tr><td>B4</td><td>Size conversion factor for B4</td><td>0.0 to 3.0</td><td>1.5</td><td>1.5</td><td>1.5</td></tr>
<tr><td>A4</td><td>Size conversion factor for A4</td><td>0.0 to 3.0</td><td>1.0</td><td>1.0</td><td>1.0</td></tr>
<tr><td>B5</td><td>Size conversion factor for B5</td><td>0.0 to 3.0</td><td>0.7</td><td>0.7</td><td>0.7</td></tr>
<tr><td>A5</td><td>Size conversion factor for A5</td><td>0.0 to 3.0</td><td>0.5</td><td>0.5</td><td>0.5</td></tr>
<tr><td>B6</td><td>Size conversion factor for B6</td><td>0.0 to 3.0</td><td>0.4</td><td>0.4</td><td>0.4</td></tr>
<tr><td>A6</td><td>Size conversion factor for A6</td><td>0.0 to 3.0</td><td>0.3</td><td>0.3</td><td>0.3</td></tr>
<tr><td>FOLIO</td><td>Size conversion factor for folio</td><td>0.0 to 3.0</td><td>0.3</td><td>0.3</td><td>0.3</td></tr>
<tr><td>OTHER</td><td>Size conversion factor for non-standard sizes</td><td>0.0 to 3.0</td><td>1.0</td><td>1.0</td><td>1.0</td></tr>
</table>
Inch models
<table>
<tr><th rowspan="2">Display</th><th rowspan="2">Description</th><th rowspan="2">Setting</th><th colspan="3">Initial setting</th></tr>
<tr><th>COPY</th><th>PRI</th><th>FAX</th></tr>
<tr><td>11 × 17</td><td>Size conversion factor for 11" × 17"</td><td>0.0 to 3.0</td><td>2.0</td><td>2.0</td><td>2.0</td></tr>
<tr><td>8.5 × 14</td><td>Size conversion factor for 8.5" × 14"</td><td>0.0 to 3.0</td><td>1.5</td><td>1.5</td><td>1.5</td></tr>
<tr><td>8.5 × 11</td><td>Size conversion factor for 8.5" × 11"</td><td>0.0 to 3.0</td><td>1.0</td><td>1.0</td><td>1.0</td></tr>
<tr><td>5.5 × 8.5</td><td>Size conversion factor for 5.5" × 8.5"</td><td>0.0 to 3.0</td><td>0.7</td><td>0.7</td><td>0.7</td></tr>
<tr><td>OTHER</td><td>Size conversion factor for non-standard sizes</td><td>0.0 to 3.0</td><td>0.5</td><td>0.5</td><td>0.5</td></tr>
</table>
4. Press the start key. The setting is set.
Completion
To exit this maintenance item without changing the current setting, press the stop/clear key. The screen for selecting a maintenance item is displayed.
</td></tr>
<tr><td>U341</td><td>
Specific paper feed location setting for printing function
Description
Sets a paper feed location specified for printer output (only if a printer kit is installed).
Purpose
To use a paper feed location only for printer output.
Method
1. Press the start key. The screen for selecting an item is displayed.
2. Select the paper feed location for the printer. The selected item is displayed in reverse.
<table>
<tr><th>Display</th><th>Description</th></tr>
<tr><td>FIRST</td><td>Upper drawer</td></tr>
<tr><td>SECOND</td><td>Lower drawer</td></tr>
<tr><td>THIRD</td><td>Optional upper drawer</td></tr>
<tr><td>FOURTH</td><td>Optional lower drawer</td></tr>
<tr><td>LCF</td><td>Optional large paper deck</td></tr>
</table>
3. Press the start key. The setting is set.
Completion
Press the stop/clear key. The screen for selecting a maintenance item is displayed.
</td></tr>
</table>

<table>
<tr><th>Maintenance item No.</th><th>Description</th></tr>
<tr><td>U342</td><td>
Setting the ejection restriction
Description
Sets or cancels the restriction on the number of sheets to be ejected continuously when the internal eject tray is selected as the eject location.
Purpose
According to user request, sets or cancels restriction on the number of sheets.
Method
1. Press the start key. The screen for selecting an item is displayed.
2. Select ON or OFF.
<table>
<tr><th>Display</th><th>Description</th></tr>
<tr><td>ON
OFF</td><td>Sets restriction on the number of sheets
Cancels restriction on the number of sheets</td></tr>
</table>
Details of restriction (number of sheets to be ejected continuously after the start key is pressed)
<table>
<tr><th>Condition</th><th>Number of sheets</th></tr>
<tr><td>When no optional ejection device is installed
When the job separator or duplex unit is installed
When the finisher is installed</td><td>250
150
100</td></tr>
</table>
3. Press the start key. The setting is set.
Completion
Press the stop/clear key. The screen for selectiong a maintenance item No. is displayed.
</td></tr>
<tr><td>U343</td><td>
Switching between duplex/simplex copy mode
Description
Switches the initial setting between duplex and simplex copy.
Purpose
To be set according to frequency of use: set to the more frequently used mode.
Method
Press the start key. The screen for selecting an item is displayed.
Setting
1. Select ON or OFF. The selected item is displayed in reverse.
<table>
<tr><th>Display</th><th>Description</th></tr>
<tr><td>ON
OFF</td><td>Duplex copy
Simplex copy</td></tr>
</table>
Initial setting: OFF
2. Press the start key. The setting is set, and the screen for selecting a maintenance item No. is displayed.
Completion
To exit this maintenance item without changing the current setting, press the stop/clear key. The screen for selecting a maintenance item No. is displayed.
</td></tr>
</table>

<table>
<tr><th>Maintenance item No.</th><th>Description</th></tr>
<tr><td>U344</td><td>
Setting preheat/energy saver mode
Description
Changes the control for preheat/energy saver mode.
Purpose
According to user request, selects which has priority, the recovery time from preheat or energy saver.
Method
Press the start key. The screen for selecting an item is displayed.
Setting
1. Select control mode. The selected item is displayed in reverse.
<table>
<tr><th>Display</th><th>Control in preheat mode</th></tr>
<tr><td>INSTANT READY</td><td>Without decreasing the fixing control temperature, the display on the operation panel is turned off.</td></tr>
<tr><td>ENERGY STAR</td><td>The fixing control temperature is set at 130°C.
The copier is forcibly stabilized 30 s after exiting preheat/energy saver mode.</td></tr>
<tr><td>E 2000</td><td>The fixing control temperature is decreased by 70°C.</td></tr>
</table>
Initial setting: E 2000
2. Press the start key. The setting is set, and the screen for selecting a maintenance item No. is displayed.
Completion
To exit this maintenance item without changing the current setting, press the stop/clear key. The screen for selecting a maintenance item No. is displayed.
</td></tr>
<tr><td>U345</td><td>
Setting the value for maintenance due indication
Description
Sets when to display a message notifying that the time for maintenance is about to be reached, by setting the number of copies that can be made before the current maintenance cycle ends.
When the difference between the number of copies of the maintenance cycle and that of the maintenance count reaches the set value, the message is displayed.
This maintenance mode is effective for only Japanese specification.
</td></tr>
<tr><td>U402</td><td>
Adjusting margins of image printing
Adjustment
See page 1-6-13.
</td></tr>
<tr><td>U403</td><td>
Adjusting margins for scanning an original on the contact glass
Adjustment
See page 1-6-31.
</td></tr>
</table>

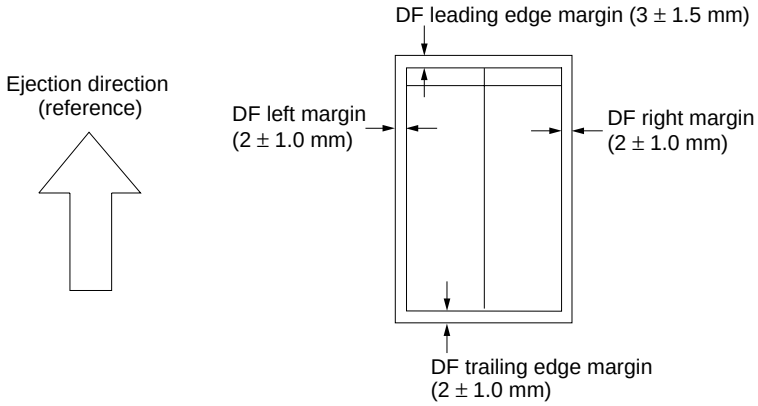
<table>
<tr><th>Maintenance item No.</th><th>Description</th></tr>
<tr><td>U404</td><td>
Adjusting margins for scanning an original from the DF
Description
Adjusts margins for scanning the original from the DF.
Purpose
Used if margins are not correct when the optional DF is used.
Caution
Before making this adjustment, ensure that the following adjustments have been made in maintenance mode.
U402 → U403 → U404
Method
Press the start key. The screen for selecting an item is displayed.
Setting
1. Select the item to be set. The selected item is displayed in reverse.
2. Change the setting using the cursor up/down keys.
<table>
<tr><th>Display</th><th>Description</th><th>Setting range</th><th>Initial setting</th><th>Change in value per step</th></tr>
<tr><td>A MARGIN</td><td>Left margin</td><td>0 to 10</td><td>2</td><td>0.5 mm</td></tr>
<tr><td>B MARGIN</td><td>Leading edge margin</td><td>0 to 10</td><td>3</td><td>0.5 mm</td></tr>
<tr><td>C MARGIN</td><td>Right margin</td><td>0 to 10</td><td>2</td><td>0.5 mm</td></tr>
<tr><td>D MARGIN</td><td>Trailing edge margin</td><td>0 to 10</td><td>2</td><td>0.5 mm</td></tr>
</table>
Increasing the setting makes the margin wider, and decreasing it makes the margin narrower.


Figure 1-4-7 Correct margin amount
3. Press the start key. The value is set.
Interrupt copy mode
While this maintenance item is being performed, copying from an original can be made in interrupt copy mode.
Completion
Press the stop/clear key at the screen for selecting an item. The screen for selecting a maintenance item No. is displayed.
</td></tr>
<tr><td>U407</td><td>
Adjusting the leading edge registration for memory image printing
Adjustment
See page 1-6-11.
</td></tr>
</table>

<table>
<tr><th>Maintenance item No.</th><th>Description</th></tr>
<tr><td>U901</td><td>
Checking/clearing copy counts by paper feed locations
Description
Displays or clears copy counts by paper feed locations.
Purpose
To check the time to replace consumable parts. Also to clear the counts after replacing the consumable parts.
Method
1. Press the start key. The counts by paper feed locations are displayed.
2. Change the screen using the cursor up/down keys.
<table>
<tr><th>Display</th><th>Paper feed locations</th></tr>
<tr><td>BYPASS</td><td>Bypass tray</td></tr>
<tr><td>FIRST</td><td>Upper drawer</td></tr>
<tr><td>SECOND</td><td>Lower drawer</td></tr>
<tr><td>THIRD</td><td>Optional drawer 1</td></tr>
<tr><td>FORTH</td><td>Optional drawer 2</td></tr>
<tr><td>LCF</td><td>Optional large paper deck</td></tr>
<tr><td>DUPLEX</td><td>Optional duplex unit</td></tr>
</table>
When an optional paper feed device is not installed, the corresponding count is not displayed.
Clearing
1. Select the count to be cleared. The selected item is displayed in reverse.
To clear the counts for all paper feed locations, press ALL on the touch panel.
2. Press the start key. The count is cleared, and the screen for selecting a maintenance item No. is displayed.
Completion
To exit this maintenance item without changing the current setting, press the stop/clear key. The screen for selecting a maintenance item No. is displayed.
</td></tr>
<tr><td>U902</td><td>
Checking/clearing finisher punch count
Description
Sets the punch limit and displays and clears the punch-hole scrap count when the optional finisher is attached.
Purpose
Sets the punch limit to notify the user of the time to collect punch-hole scrap. Also, used to manually clear the punch-hole scrap count if a message requiring collection of punch-hole scrap is shown on the touch panel after collection. If punch-hole scrap is collected with the copier power turned off, the punch-hole scrap count is not cleared and consequently this problem occurs.
Start
1. Press the start key. The screen for selecting in item is displayed.
2. Select the item. The selecting an item is displayed in reverse.
<table>
<tr><th>Display</th><th>Description</th><th>Setting range</th><th>Initial setting</th></tr>
<tr><td>PUNCH LIMIT</td><td>Punch limit
(maximum number of punching times)</td><td>0 to 999000</td><td>75000</td></tr>
<tr><td>PUNCH COUNT</td><td>Punch-hole scrap count
(current number of punching times)</td><td>–</td><td>–</td></tr>
</table>
Setting the punch limit
1. Change the setting using the numeric keys.
2. Press the start key. The value is set.
Clearing
1. Press the reset key.
2. Press the start key. The count is cleared, and the screen for selecting a maintenance item No. is displayed.
Completion
To exit this maintenance item without changing the current setting, press the stop/clear key. The screen for selecting a maintenance item No. is displayed.
</td></tr>
</table>

Maintenance item No.	Description
U903	**Checking/clearing the paper jam counts** **Description** Displays or clears the jam counts by jam locations. **Purpose** To check the paper jam status. Also to clear the jam counts after replacing consumable parts. **Method** 1. Press the start key. The jam count is displayed by jam codes. 2. Change the screen using the * or # keys. **Clearing** 1. Press the reset key. Jam counts cannot be cleared individually. 2. Press the start key. The count is cleared, and the screen for selecting a maintenance item No. is displayed. **Completion** To exit this maintenance item without changing the current setting, press the stop/clear key. The screen for selecting a maintenance item No. is displayed.
U904	**Checking/clearing the service call counts** **Description** Displays or clears the service call code counts by types. **Purpose** To check the service call code status by types. Also to clear the service call code counts after replacing consumable parts. **Method** 1. Press the start key. The service call count is displayed by service call codes. 2. Change the screen using the * or # keys. **Clearing** 1. Select the count to be cleared. The selected item is displayed in reverse. To clear all counts, press the reset key. 2. Press the start key. The count is cleared. When all counts are cleared, the screen for selecting a maintenance item No. is displayed. **Completion** To exit this maintenance item without changing the current setting, press the stop/clear key. The screen for selecting a maintenance item No. is displayed.

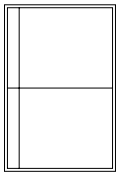
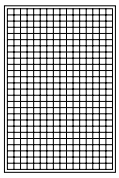
<table>
<tr><th>Maintenance item No.</th><th>Description</th></tr>
<tr><td>U905</td><td>
Checking/clearing counts by optional devices
Description
Displays or clears the counts of the optional DF or finisher.
Purpose
To check the use of the DF and finisher. Also to clear the counts after replacing consumable parts.
Method
1. Press the start key. The screen for selecting an item is displayed.
2. Select the device, the count of which is to be checked and press the start key. The count of the selected device is displayed.
• DF
<table>
<tr><th>Display</th><th>Description</th></tr>
<tr><td>CHANGE
ADF
RADF</td><td>Original replacement count
No. of single-sided originals that has passed through the DF in ADF mode
No. of double-sided originals that has passed through the DF in RADF mode</td></tr>
</table>
• Finisher (SORTER)
<table>
<tr><th>Display</th><th>Description</th></tr>
<tr><td>CP CNT
STAPLE
STACK</td><td>No. of copies that has passed
Frequency the stapler has been activated
Frequency the stacker has been activated</td></tr>
</table>
Clearing
1. Select the item to be cleared. The selected item is displayed in reverse.
2. Press the start key. The count is cleared.
3. To return to the screen for selecting an item, press the stop/clear key.
Completion
Press the stop/clear key at the screen for selecting an item. The screen for selecting a maintenance item No. is displayed.
</td></tr>
<tr><td>U906</td><td>
Resetting partial operation control
Description
Resets the service call code for partial operation control.
Purpose
To be reset after partial operation is performed due to problems in the drawers or other sections, and the related parts are serviced.
Method
1. Press the start key.
2. Press EXECUTE on the touch panel.
3. Press the start key to reset partial operation control. The maintenance mode is exited, and the machine returns to the same status as when the main switch is turned on.
</td></tr>
</table>

Maintenance item No.	Description
U908	**Changing the total counter value** **Description** Displays, clears and changes the total counter value. **Purpose** To check the total counter value. **Method** Press the start key. The total counter value is displayed. **Clearing** 1. Press the reset key. 2. Press the start key. The value is cleared. The screen for selecting a maintenance item No. is displayed. **Setting** 1. Enter a six-digit value using the numeric keys. 2. Press the start key. The value is set. The screen for selecting a maintenance item No. is displayed. **Completion** To exit this maintenance item without changing the current total counter value, press the stop/clear key. The screen for selecting a maintenance item No. is displayed.
U910	**Clearing the black ratio data** **Description** Clears the accumulated black ratio data for A4 sheets. **Purpose** To clear data as required at times such as during maintenance service. **Method** 1. Press the start key. 2. Press CANCEL on the touch panel. 3. Press the start key. The accumulated black ratio data is cleared, and the screen for selecting a maintenance item is displayed. **Completion** To exit this maintenance item without changing the current setting, press the stop/clear key. The screen for selecting a maintenance item is displayed.
U911	**Checking/clearing copy counts by paper sizes** **Description** Displays and clears the paper feed counts by paper sizes. **Purpose** To check or clear the counts after replacing consumable parts. **Method** Press the start key. The screen for the paper feed counts by paper size is displayed. **Clearing** 1. Select the paper size. The selected item is displayed in reverse. To clear all counts, press the reset key. 2. Press the start key. The count is cleared. When clearing all counts, the screen for selecting a maintenance item is displayed. **Completion** To exit this maintenance item without changing the count, press the stop/clear key. The screen for selecting a maintenance item is displayed.

<table>
<tr><th>Maintenance item No.</th><th>Description</th></tr>
<tr><td>U990</td><td>
Checking/clearing the time for the exposure lamp to light
Description
Displays, clears or changes the accumulated time for the exposure lamp to light.
Purpose
To check duration of use of the exposure lamp. Also to clear the accumulated time for the lamp after replacement.
Method
Press the start key. The accumulated time of illumination for the exposure lamp is displayed in minutes.
Clearing
1. Press the reset key.
2. Press the start key. The accumulated time is cleared, and the screen for selecting a maintenance item No. is displayed.
Setting
1. Enter a six-digit accumulated time using the numeric keys.
2. Press the start key. The time is set, and the screen for selecting a maintenance item No. is displayed.
Completion
To exit this maintenance item without changing the accumulated time, press the stop/clear key. The screen for selecting a maintenance item No. is displayed.
</td></tr>
<tr><td>U991</td><td>
Checking/clearing the scanner count
Description
Displays or clears the scanner operation count.
Purpose
To check the status of use of the scanner.
Method
Press the start key. The screen for selecting an item is displayed.
<table>
<tr><th>Display</th><th>Description</th></tr>
<tr><td>TOTAL SCAN COUNT
NT SCAN COUNT</td><td>Counts of scanner operation
Counts of network scanner operation</td></tr>
</table>
Clearing
1. Select the item to be cleared.
2. Press the reset key.
3. Press the start key. The count is cleared. The screen for selecting a maintenance item No. is displayed.
Setting
1. Select the item to be changed.
2. Enter a six-digit count using the numeric key.
3. Press the start key. The value is set. The screen for selecting a maintenance item No. is displayed.
Completion
To exit this maintenance item without changing the current setting, press the stop/clear key. The screen for selecting a maintenance item No. is displayed.
</td></tr>
</table>

<table>
<tr><th>Maintenance item No.</th><th>Description</th></tr>
<tr><td>U992</td><td>
Checking or clearing the printer/fax count
Description
Displays, clears or changes the print count of the printer or fax when the optional printer board or fax unit is installed.
Purpose
To check the frequency of use of the printer or fax.
Method
Press the start key. The screen for selecting an item is displayed.
<table>
<tr><th>Display</th><th>Description</th></tr>
<tr><td>PRINTER COUNT
FAX COUNT</td><td>Print count of the printer
Print count of the fax</td></tr>
</table>
Clearing
1. Select the count to be cleared.
2. Press the reset key.
3. Press the start key. The count is cleared. The screen for selecting a maintenance item No. is displayed.
Setting
1. Select the item to be changed.
2. Enter a six-digit count using the numeric keys.
To clear the counts for both printer and fax, press the reset key.
3. Press the start key. The value is set.
Completion
Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.
</td></tr>
</table>

Maintenance item No.	Description
U993	**Outputting a VTC-PG pattern** **Description** Selects and outputs a VTC-PG pattern created in the copier. **Purpose** When performing respective image printing adjustments, used to check the machine status apart from that of the scanner with a non-scanned output VTC-PG pattern. **Method** 1. Press the start key. The screen for selecting an item is displayed. 2. Select the VTC-PG pattern to be output.

Display	PG pattern to be output	Purpose
PG1		• Center line adjustment
PG2		• Lateral squareness adjustment • Magnification adjustment
PG3		———

3. Press the interrupt key. The copy mode screen is displayed.
4. Press the start key. A VTC-PG pattern is output.

Completion
Press the stop/clear key at the screen for selecting an item. The screen for selecting a maintenance item No. is displayed.