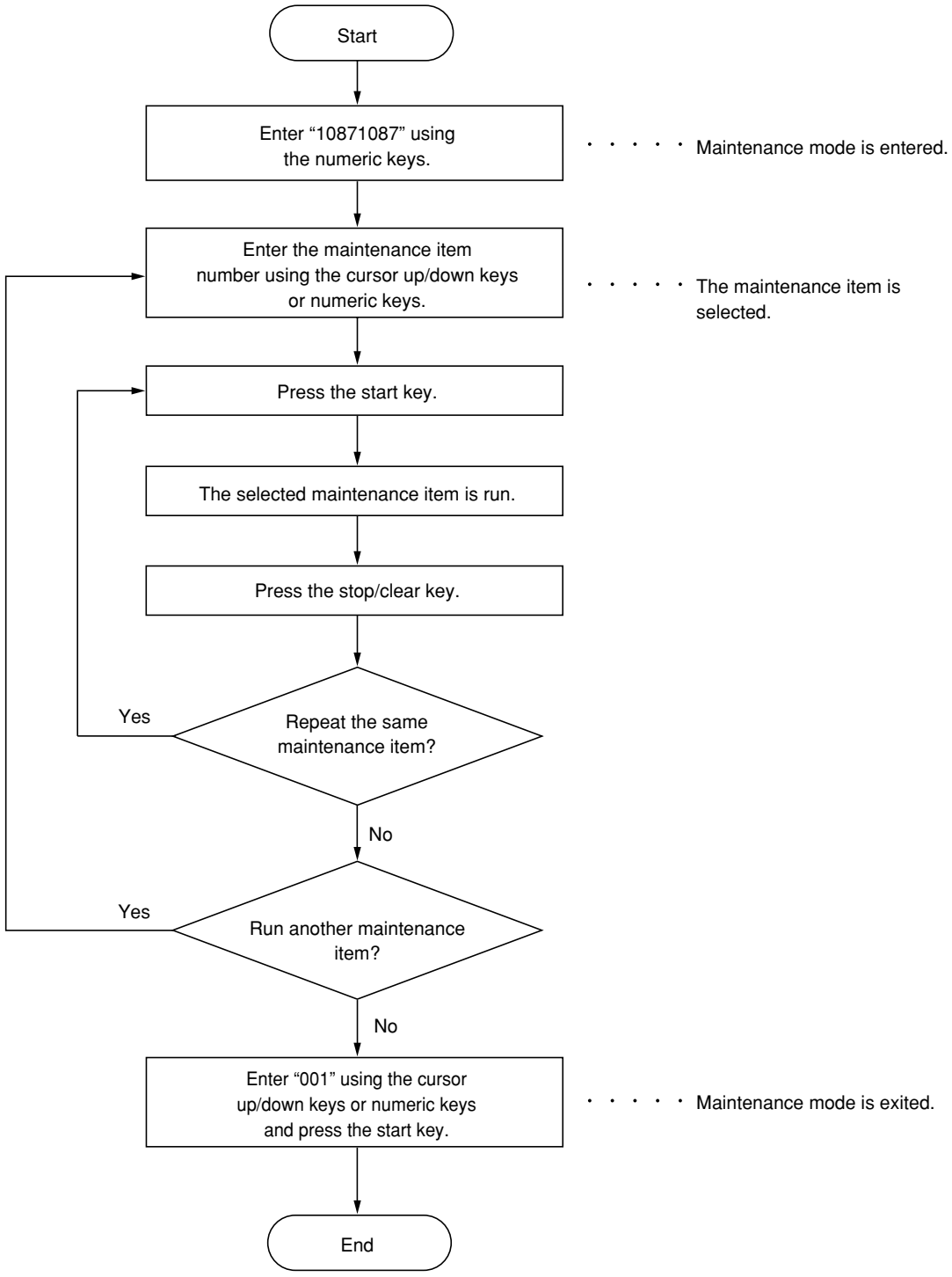
1-4-2 Maintenance mode

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	—
	U002	*Setting the factory default data*	—
	U003	Setting the service telephone number	**********
	U004	Setting the machine number	000000
	U005	Copying without paper	—
	U018	*Displaying the ROM checksum*	—
	U019	Displaying the ROM version	—
Initialization	U020	Initializing all data	—
	U021	*Initializing all memory*	—
	U022	*Initializing backup memory*	—
	U024	HDD formatting	—
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	*Setting paper timing* • Leading edge registration/Leading edge registration for duplex copying • Center line/Center line for duplex copying	 *5*/0 *–2.8*/0
	U035	Setting folio size • Length • Width	 330 210
	U037	Checking fan motor operation	—
	U050	Setting switchback drive *• Duplex forwarding clutch-off timing* *• Duplex forwarding clutch-off timing (for 11" × 17" copy paper only)* *• Duplex reversing clutch-on timing* *• Duplex reversing clutch-off timing*	 *160* *110* *50* *132*
	U051	Adjusting the amount of slack in the paper at the registration roller *• Drawer 1* *• Drawer 2* *• Bypass tray* *• Duplex copying (second face)*	 *–10* *3* *25* *18*
	U053	*Adjusting motor speed standard* • Image formation motor • Paper conveying motor • Polygon motor	 6 *3* 0
	U054	Adjusting the amount of slack in the paper at the vertical conveying *• Duplex paper feeding (second face) of A3, A5, 11" × 17", and 5 1/2" × 8 1/2" sizes* *• Duplex paper feeding (second face) of B4, A4, B5, 8 1/2" × 14", and 11" × 8 1/2" sizes* *• Paper feeding through the bypass*	 *70* *70* *0*
	U059	*Setting fan mode*	*MODE1*
Optical	U060	Adjusting the scanner input properties	12
	U061	Turning the exposure lamp on	—
	U063	Adjusting the shading position	0
	U064	Adjusting the CCD level	9
	U065	*Adjusting the scanner motor speed* • Main scanning direction/auxiliary scanning direction	 –6/0

** Initial setting for factory default setting*

Section	Item No.	Maintenance item contents	Initial setting*
Optical	U066	Adjusting the leading edge registration for scanning an original on the contact glass • Leading edge registration/Leading edge registration for rotate copying	 –10/0
	U067	Adjusting the center line for scanning an original on the contact glass • Center line/Center line for rotate copying	 –30/0
	U070	Adjusting the DF magnification	–1
	U071	*Adjusting the DF leading timing* • DF leading edge registration • DF trailing edge registration	 10 –15
	U072	*Adjusting the DF original center line* • 1 sided mode/front in 2 sided mode/rear in 2 sided mode	 –8/–8/–7
	U073	*Checking scanner motors*	—
	U074	Executing DF automatic adjustment	—
	U080	Adjusting exposure in toner economy mode	–6
	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	 0/0/0
	U099	Checking and setting the original size detection sensor	—
High voltage	U100	Checking the operation of main high voltage *• Grid control voltage*	 *168*
	U101	Setting the other high voltages *• Developing bias step control final voltage* *• Developing bias step control initial voltage* *• Transfer control voltage for simplex copying* *• Transfer control voltage for duplex copying* *• Separation control voltage for simplex copying* *• Separation control voltage for duplex copying*	 *207* *52* *210* *210* *200* *230*
	U102	Setting the cleaning interval for the main charger	2
	U110	Checking/clearing the drum count	—
	U111	Checking/clearing the drum drive time	—
	U114	*Selecting AC mode*	*Inch: ON* *Metric: NORMAL*
	U126	Setting effective potential correction *• Drum drive time for starting correction* *• Correction interval for effective potential correction* *• Effective correction target value*	 *17000* *1000* *550*
Developing	U130	Initial setting for the developer	—
	U131	Setting the toner sensor control voltage	154
	U132	Replenishing toner forcibly	—
	U135	*Checking toner motors operation*	—
	U136	Turning the toner level detection function on/off	On
	U137	Checking the toner level detection sensor	—
	U147	Setting toner loading operation	MODE1: On/MODE2: Off
	U155	Displaying the toner sensor output	—
	U156	Changing the toner control level *• Toner control level* *• Toner empty level* *• Toner control reference voltage*	 *102* *30* *102*
	U157	Checking/clearing the developing drive time *• Image formation motor drive time* *• Paper feed motor drive time*	 *0* *0*

** Initial setting for factory default setting*

Section	Item No.	Maintenance item contents	Initial setting*
Developing	U158	Checking/clearing the developing count	0
Fixing and cleaning	U160	Applying toner to the cleaning blade	—
	U161	Setting the fixing control temperature • Control temperature during copying • Primary stabilization fixing temperature • Secondary stabilization fixing temperature • Aging time after secondary stabilization *• Compensation value for setting card stock/postcard through the bypass*	 185 165 185 120 *10*
	U162	Stabilizing fixing forcibly	—
	U163	Resetting the fixing problem data	—
	U194	Setting the fixing web drive	—
	U196	Turning the fixing heater on	—
	U198	Setting the fixing phase control	*Inch: OFF* *Metric: ON*
Operation panel and support	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	Inch: 11" × 8 1/2" Metric: A4
	U209	Setting date and time	—
	U212	Setting the deck lift operation	Side feed
	U235	*Setting output tray initialize mode*	*HP ON*
	U240	Checking the operation of the finisher	—
	U241	Checking the operation of the switches of the finisher	—
	U243	Checking the operation of the DF motors, solenoids and clutch	—
	U244	Checking the DF switches	—
	U245	Checking messages	—
	U247	Setting the paper feed device	—
	U248	Setting the paper eject devices	—
Mode setting	U250	Setting the maintenance cycle	*400000 (45 cpm copier)* *500000 (55 cpm copier)*
	U251	Checking/clearing the maintenance count	—
	U252	Setting the destination	Inch
	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
	U258	Switching copy operation at toner empty detection	—
	U260	Changing the copy count timing	After ejection
	U263	Setting the paper ejection when copying from the DF	Face-down ejection
	U264	Setting the display order of the date	*Inch* *MONTH-DAY-YEAR* *Metric* *DAY-MONTH-YEAR*
	U265	Setting OEM purchaser code	0
	U266	Setting the number of days after which to automatically delete documents	7
	U275	Setting the number of sheets for duplex circulation	Mode0

** Initial setting for factory default setting*

Section	Item No.	Maintenance item contents	Initial setting*
Mode setting	*U277*	*Setting auto application change time*	*30*
	U329	*Default setting Auto rotation copy/Sort copy* *• Auto rotation copy/Sort copy*	*ON/ON*
	U330	Setting the number of sheets to enter stacking mode during sort operation	100
	U331	Switching the paper ejection mode	Face-up ejection
	U332	Setting the size conversion factor	1.0
	U336	Setting the HDD type	0
	U339	*Setting the drawer heater mode*	*ON*
	U341	Specific paper feed location setting for printing function	—
	U342	Setting the ejection restriction	—
	U343	Switching between duplex/simplex copy mode	Off
	U344	Setting preheat/energy saver mode	ENERGY STAR
	U345	Setting the value for maintenance due indication	—
	U347	Setting auto drawer size detection	On
Printer	U350	Setting the ID-code error output	Off
	U355	Setting the output mode for face up output	First print
Image processing	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	0
Network scanner	U504	Initializing the scanner NIC	—
	U505	*Setting Data Base Assistant*	*ON*
Others	U901	Checking/clearing copy counts by paper feed locations	—
	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	—
	U907	Checking and resetting the count value on each ejection location	—
	U908	Changing the total counter value	—
	U909	Checking/clearing the fixing web count	—
	U910	Clearing the black ratio data	—
	U911	Checking/clearing copy counts by paper sizes	—
	U921	Checking/clearing the waste toner box maintenance count value	—
	U922	Checking/clearing the solenoid count value	—
	U923	*Checking/clearing the transfer charger cleaning count*	—
	U960	Outputting the machine used circumstances list	—
	U989	*HDD Scandisk*	—
	U990	Checking/clearing the time for the exposure lamp to light	—
	U991	Checking/clearing the scanner count	—
	U992	Checking or clearing the printer count	

** Initial setting for factory default setting*

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(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>
<tr><td>U002</td><td>
Setting the factory default data
Description
Restores the machine conditions to the factory default settings.
Purpose
To reset the values such as an electronic counter. Also to move the mirror frame of the scanner to the position for transport (position in which the frame can be fixed).
Method
1. Press the start key. The screen for selecting an item is displayed.
2. Select a mode. The selected item is displayed in reverse.
<table>
<tr><th>Display</th><th>Description</th></tr>
<tr><td>MODE1(ALL)

MODE2(SELECT)</td><td>To set the language to English and return the other settings to the factory default settings
To return the settings to the factory default settings without changing the language</td></tr>
</table>
3. Press the start key.
The following count values are cleared.
Developing count, service call count, each paper source count, and jam count
Backup data of user simulation, etc. is reset to the default values for each destination.
Completion
Turn the main switch off.
</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>U018</td><td>
Displaying the ROM checksum
Description
Displays the checksum of ROM.
Purpose
To check the checksum.
Method
1. Press the start key. Program names for the copier and an optional finisher (when installed) are displayed.
2. Press the start key. The ROM checksum is displayed.
<table>
<tr><th>Display</th><th>Description</th></tr>
<tr><td>MAIN
MMI 1
MMI 2
LANGUAGE(Stand.)
LANGUAGE(Option)
FINISHER</td><td>Main PCB ROM checksum
Operation PCB ROM checksum
Operation PCB ROM checksum
Standard language ROM checksum
Optional language ROM checksum
Finisher main PCB ROM checksum</td></tr>
</table>
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>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 six digits of the part number indicating the ROM version are displayed.
<table>
<tr><th>Display</th><th>Description</th></tr>
<tr><td>MAIN</td><td>Main ROM IC</td></tr>
<tr><td>MMI 1</td><td>Operation ROM IC</td></tr>
<tr><td>MMI 2</td><td>Operation ROM IC</td></tr>
<tr><td>LANGUAGE(Stand.)</td><td>Standard language ROM IC</td></tr>
<tr><td>LANGUAGE(Option)</td><td>Optional language ROM IC</td></tr>
<tr><td>MAIN BOOT</td><td>Boot of main ROM IC</td></tr>
<tr><td>MMI BOOT</td><td>Boot of operation ROM IC</td></tr>
<tr><td>NETWORK SCANNER</td><td>Optional network scanner ROM IC</td></tr>
<tr><td>FINISHER</td><td>Optional finisher ROM IC</td></tr>
<tr><td>FINISHER BOOT</td><td>Boot of optional finisher ROM IC</td></tr>
<tr><td>PRINTER</td><td>Optional printer ROM IC</td></tr>
</table>
Completion
Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.
</td></tr>
<tr><td>U020</td><td>
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 inch 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.
</td></tr>
<tr><td>U021</td><td>
Initializing all memory
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
To exit this maintenance item without executing initialization, 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>U022</td><td>Initializing backup memory
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, U080 to 099, U403, U990 and U991) is initialized.
Completion
To exit this maintenance item without executing initialization, press the stop/clear key. The screen for selecting a maintenance item No. is displayed.</td></tr>
<tr><td>U024</td><td>HDD formatting
Description
Formats the HDD backup data areas for the network scanner and department administration.
Purpose
To initialize the HDD when installing or replacing the HDD after shipping.
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 to initialize the hard disk.
The EXECUTE display flashes during initializing.
Initialization results will be displayed when initializing is completed.
4. Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.
Completion
To exit this maintenance item without executing initialization, press the stop/clear key. The screen for selecting a maintenance item No. is displayed.</td></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>Motor</th></tr><tr><td>MAIN</td><td>Image formation motor (IFM)</td></tr><tr><td>CONV</td><td>Paper conveying motor (PCM)</td></tr><tr><td>FEED</td><td>Paper feed motor (PFM)</td></tr><tr><td>DECK</td><td>Deck drive motor (DDM)</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>
</table>

Maintenance item No.	Description
U031	**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.

Display	Switches
FEED B SW	Paper feed switch 2 (PFSW2)
FEED C SW	Paper feed switch 3 (PFSW3)
FEED D SW	Paper feed switch 4 (PFSW4)
FEED E SW	Paper feed switch 5 (PFSW5)
FEED F SW	Paper feed switch 6 (PFSW6)
FEED DK 2SW	Deck paper conveying switch 2 (DPCSW2)
FEED DK 1SW	Deck paper conveying switch 1 (DPCSW1)
FEED A SW	Paper feed switch 1 (PFSW1)
RESIST SW	Registration switch (RSW)
EJECT SW	Eject switch (ESW)
BRA SW	Feed shift switch (FSSW)
REV SW	Face down eject switch (FDESW)
DUP BRA SW	Duplex feed shift switch (DUPFSSW)
DUP J SW	Duplex jam detection switch (DUPJSW)
DUP1 SW	Duplex paper conveying switch 1 (DUPPCSW1)
DUP2 SW	Duplex paper conveying switch 2 (DUPPCSW2)
DUP3 SW	Duplex eject switch (DUPESW)

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>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>SB FEED</td><td>Bypass paper feed clutch (BYPPFCL)</td></tr>
<tr><td>PF A</td><td>Paper feed clutch 1 (PFCL1)</td></tr>
<tr><td>PF B</td><td>Paper feed clutch 2 (PFCL2)</td></tr>
<tr><td>PF C</td><td>Paper feed clutch 3 (PFCL3)</td></tr>
<tr><td>PF D</td><td>Paper feed clutch 4 (PFCL4)</td></tr>
<tr><td>FEED B L</td><td>Feed low clutch 2 (FCL2-L)</td></tr>
<tr><td>FEED B H</td><td>Feed high clutch 2 (FCL2-H)</td></tr>
<tr><td>FEED C</td><td>Feed clutch 3 (FCL3)</td></tr>
<tr><td>FEED D</td><td>Feed clutch 4 (FCL4)</td></tr>
<tr><td>FEED E</td><td>Feed clutch 5 (FCL5)</td></tr>
<tr><td>FEED DK</td><td>Deck feed clutch (DFCL)</td></tr>
<tr><td>FEED A L</td><td>Feed low clutch 1 (FCL1-L)</td></tr>
<tr><td>FEED A H</td><td>Feed high clutch 1 (FCL1-H)</td></tr>
<tr><td>RESIST</td><td>Registration clutch (RCL)</td></tr>
<tr><td>DUP FWD</td><td>Duplex forwarding clutch (DUPFWDCL)</td></tr>
<tr><td>DUP REV</td><td>Duplex reversing clutch (DUPREVCL)</td></tr>
</table>
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>BRANCH</td><td>Feed shift solenoid (FSSOL)</td></tr>
<tr><td>DUP FS</td><td>Duplex eject switching solenoid (DUPESSOL)</td></tr>
<tr><td>DUP PR</td><td>Duplex pressure release solenoid (DUPPRSOL)</td></tr>
<tr><td>SB SOL</td><td>Bypass solenoid (BYPSOL)</td></tr>
<tr><td>FIX WEB SOL</td><td>Fixing WEB solenoid (FWEBSOL)</td></tr>
<tr><td>MSW OFF</td><td>Main switch turns on</td></tr>
</table>
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>
Setting paper timing
Adjustment
See pages 1-6-15 and 17.
</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 adjustment 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 at the screen for adjustment. The screen for selecting a maintenance item No. is displayed.
</td></tr>
<tr><td>U037</td><td>
Checking fan motor operation
Description
Applies power to each fan motor to turn on.
Purpose
To check the operation of each fan motor.
Method
1. Press the start key. The screen for selecting an item is displayed.
2. Select the desired fan motor to operate. The selected item is displayed in reverse and the operation starts.
<table>
<tr><th>Display</th><th>Switches</th></tr>
<tr><td>CONV FAN
DEV FAN</td><td>Paper conveying fan motor (PCFM)
Image formation fan motor (IFFM)</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>U050</td><td>
Setting the switchback drive
Adjustment
See page 1-6-66.
</td></tr>
<tr><td>U051</td><td>
Adjusting the amount of slack in the paper
Adjustment
See page 1-6-19.
</td></tr>
</table>

Maintenance item No.	Description
U053	***Adjusting motor speed standard***

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 adjustment 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	Image formation motor speed adjustment	0 to +14	6
CONV MOTOR	Paper conveying motor speed adjustment	0 to +14	*3*
POLYGON MOTOR	Polygon motor speed adjustment	-20 to +20	0

MAIN MOTOR /CONV 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.

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 = 270 ± 1.0 mm

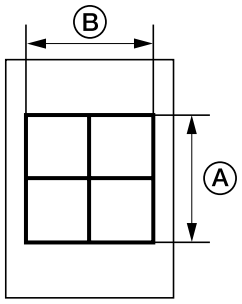


Figure 1-4-1

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: Image formation motor speed adjustment
   B: Polygon motor speed adjustment

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

<table>
<tr><th>Maintenance item No.</th><th>Description</th></tr>
<tr><td>U054</td><td>Adjusting the amount of slack in the paper
Adjustment
See page 1-6-20.</td></tr>
<tr><td>U059</td><td>Setting fan mode
Description
Sets the rotation time of conveying fan motor after stop of drive.
Purpose
For prevention of faulty image caused by increase of ozone inside the machine, the rotation time of conveying fan motor after stop of drive is set to 30 seconds (MODE1) as the default setting. If the user requests reduction of noise, change the setting to 10 seconds (MODE2).
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>MODE1
MODE2</td><td>ON for 30 seconds after stop of drive
ON for 10 seconds after stop of drive</td></tr>
</table>
Initial setting: MODE1
3. Press the start key. The setting is set, and the screen for selecting a maintenance item No. 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>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>Description</th><th>Setting range</th><th>Initial setting</th></tr>
<tr><td>Image scanning density</td><td>1 to +23</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>–8 to +2</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>U064</td><td>
Adjusting the CCD level
Description
Adjusts the CCD level.
Purpose
To adjust when density difference due to CCD is generated between both sides of the center of the copy image.
Setting
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></tr>
<tr><td>CCD level</td><td>0 to +15</td><td>9</td></tr>
</table>
3. Press the start key. The value is set.
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 motor speed
Adjustment
See pages 1-6-34 and 35.
</td></tr>
<tr><td>U066</td><td>
Adjusting the leading edge registration for scanning an original on the contact glass
Adjustment
See page 1-6-36.
</td></tr>
<tr><td>U067</td><td>
Adjusting the center line for scanning an original on the contact glass
Adjustment
See page 1-6-37.
</td></tr>
<tr><td>U070</td><td>
Adjusting the DF magnification
Adjustment
See pages 1-6-68.
</td></tr>
<tr><td>U071</td><td>
Adjusting the DF leading timing
Adjustment
See page 1-6-70.
</td></tr>
<tr><td>U072</td><td>
Adjusting the DF original center line
Adjustment
See page 1-6-69.
</td></tr>
</table>

Maintenance item No.	Description
U073	***Checking scanner motors***

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	25 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"

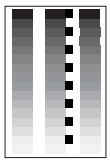
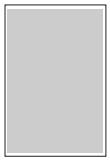
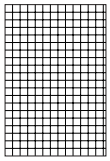
4. Press the start key. The setting is set. Scanning starts under the selected conditions.
5. To stop operation, press the stop/clear key.

Completion

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

<table>
<tr><th>Maintenance item No.</th><th>Description</th></tr>
<tr><td>U074</td><td>
Executing DF automatic adjustment
Description
Uses a specified original and automatically adjusts the following items in the DF scanning section.
• Adjusting the DF magnification (U070)
• Adjusting the DF scanning timing (U071)
• Adjusting the DF center line (U072)
• Adjusting the margins for scanning an original from the DF (U404)
When you run this maintenance mode, the preset values of U70, U071, U072, and U404 will also be updated.
Purpose
To perform automatic adjustment of various items in the DF scanning section.
Method
1. Set a specified original (part number: 2AC68241) in the DF.
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.
<table>
<tr><th>Display</th><th>Description</th></tr>
<tr><td>CONVEY SPEED</td><td>DF auxiliary scanning direction</td></tr>
<tr><td>LEAD EDGE ADJ</td><td>DF leading edge registration</td></tr>
<tr><td>TRAIL EDGE ADJ</td><td>DF trailing edge registration</td></tr>
<tr><td>DF CENTER</td><td>DF center line</td></tr>
<tr><td>DF A MARGIN</td><td>DF scanning left margin</td></tr>
<tr><td>DF B MARGIN</td><td>DF scanning leading edge margin</td></tr>
<tr><td>DF C MARGIN</td><td>DF scanning right margin</td></tr>
<tr><td>DF D MARGIN</td><td>DF scanning trailing edge margin</td></tr>
</table>
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 is displayed.
If the stop/clear key is pressed during auto adjustment, adjustment stops and no settings are changed.
</td></tr>
<tr><td>U080</td><td>
Adjusting exposure in toner economy mode
Description
Adjusts the image density in the eco-print mode.
Purpose
To increase or decrease the image density in the eco-print mode.
Method
Press the start key. The screen for adjustment 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>Exposure is toner economy mode</td><td>–12 to 0</td><td>–6</td></tr>
</table>
Increasing the setting makes the image darker; decreasing it makes the image lighter.
2. Press the start key. The value is set.
Completion
Press the stop/clear key at the screen for adjustment. The screen for selecting a maintenance item No. is displayed.
</td></tr>
</table>

Maintenance item No.	Description
U089	**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. The screen for selecting an item is displayed. 2. Select the MIP-PG pattern to be output.

Display	PG pattern to be output	Purpose
GRAYSCALE		To check the laser scanner unit engine output characteristics.
MONO-LEVEL		To check the drum quality.
256-LEVEL		To check resolution reproducibility in printing.
1 DOT-LINE		To check fine line reproducibility. To adjust the position of the laser scanner unit (lateral squareness)

3. To change the output conditions of MONO-LEVEL and 1dot-LINE, use the cursor up/down keys to change the preset values and press the Start key to register the setting.

Display	Setting range	Initial setting
Output density of MONO-LEVEL	0 or 70	0
1dot-LINE	0 to 21	0

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

Completion

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

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 SHD AFTER	Performs scanning before shading and displays the result. 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.

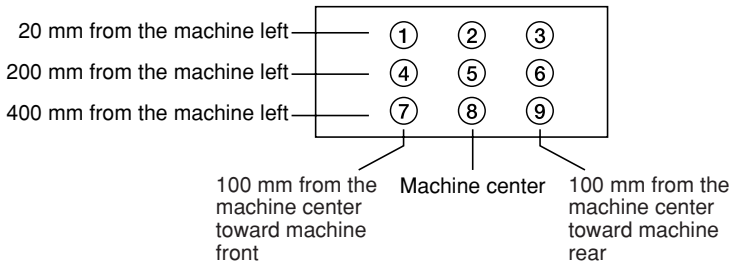


Figure 1-4-2

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 magnification in the main direction(U065) • Adjusting the scanner leading edge registration (U066) • Adjusting the scanner magnification in the auxiliary direction (U065) • Adjusting the margins for scanning an original on the contact glass (U403) 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 auxiliary scanning direction
MAIN SCAN	Scanner main scanning direction
DF A MARGIN	Scanner scanning left margin
DF B MARGIN	Scanner scanning leading edge margin
DF C MARGIN	Scanner scanning right margin
DF D MARGIN	Scanner scanning trailing edge margin

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.

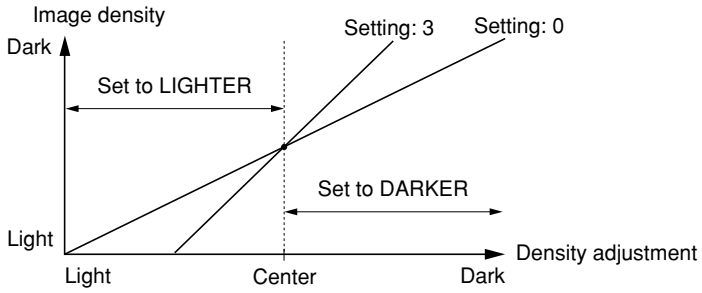


Figure 1-4-3 Exposure density gradient

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.

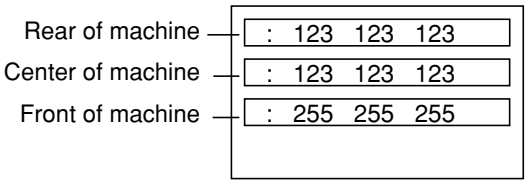


Figure 1-4-4

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)	–	–
SIZE	Detected original size display	–	–

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.

Maintenance item No.	Description
U100	**Checking the operation of main high voltage** **Description** Changes the surface potential by changing the grid control voltage. Also performs main charging. **Purpose** To set the surface potential or check main charging. **Start** Press the start key. The screen for selecting an item is displayed.

Display	Description
DSP DATA	Changing the grid control voltage
MC ON	Turning the main charger on
MC ON/OFF	Turning the main charger on and off
LASER ON/OFF	Turning the main charger on and the laser scanner unit on and off

Method for main chager output

1. Select the main charger output on the screen for selecting an item: select one from MC ON, MC ON/OFF or LASER ON/OFF on the touch panel. The selected operation starts.
2. To stop operation, press the stop/clear key.

Setting the grid control voltage

1. Press the DSP DATA on the touch panel of the screen for selecting an item.
2. Change the setting using the ∗ or # keys.

Description	Setting range	Initial setting
Grid control voltage	77 to 230	168

Increasing the setting makes the surface potential higher, and decreasing it makes the potential lower.
Change in value per step: approximately 3.6 V

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 when main charger output stops. The screen for selecting a maintenance item No. is displayed.

Maintenance item No.	Description
U101	**Setting the other high voltages**

Description

Sets the developing bias control voltage, the transfer control voltage, and the separation control voltage or checks the output of these voltages.

Purpose

To check or change the developing bias, the transfer voltage, and the separation voltage.

Method

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

Display	Description
DEV BIAS SET	Setting of developing bias control voltage
TC SET	Setting and output check of transfer control voltage
AC SET	Setting of separation control voltage

Setting: developing bias control voltage

1. Press the DEV BIAS SET on the touch panel of the screen for selecting an item.
2. Select an item to be set.

Display	Description	Setting range	Initial setting
DB DATA	Developing bias step control final voltage	0 to 255	207
DB DATA2	Developing bias step control initial voltage	0 to 255	52

3. Change the setting using the cursor up/down keys.
   Increasing the setting makes the image darker; decreasing it makes the image lighter.
4. Press the start key. The value is set.

Setting: transfer bias control voltage

1. Press the TC SET on the touch panel of the screen for selecting an item.
2. Select an item to be set.

Display	Description	Setting range	Initial setting
TC DATA	Transfer control voltage for simplex copying	0 to 255	210
TC DATA (DUP)	Transfer control voltage for duplex copying	0 to 255	210
TC ON	Transfer voltage output ON	–	–

3. Change the setting using the cursor up/down keys.
   Increasing the setting makes the transfer voltage higher, and decreasing it makes the voltage lower.
   Press the TC ON on the touch panel. The currently set transfer voltage is output. To stop the transfer voltage output, press the stop/clear key.
4. Press the start key. The value is set.

Setting: separation bias control voltage

1. Press the AC SET on the touch panel of the screen for selecting an item.
2. Select an item to be set.

Display	Description	Setting range	Initial setting
AC DATA	separation control voltage for simplex copying	0 to 255	200
AC DATA (DUP)	separation control voltage for duplex copying	0 to 255	230

3. Change the setting using the cursor up/down keys.
   Increasing the setting makes the separation voltage higher, and decreasing it makes the voltage lower.
4. 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 maintenance item No. is displayed.

<table>
<tr><th>Maintenance item No.</th><th>Description</th></tr>
<tr><td>U102</td><td>
Setting the cleaning interval for the main charger
Description
Executes a cleaning operation for the main charger and changes the intervals at which the main charger is cleaned.
Purpose
To check the cleaning operation for the main charger. Also to change the intervals for the operation. Making the intervals longer decreases the stand-by time when starting copying.
Method
Press the start key. The screen for selecting an item is displayed.
<table>
<tr><th>Display</th><th>Description</th></tr>
<tr><td>MC ADJUST DATA
MC TEST RUN</td><td>Main charger cleaning operation intervals
Main charger cleaning operation ON</td></tr>
</table>
Setting
1. Change the setting using the ∗ or # keys.
Setting range: 1 to 2 (unit: 1,000 sheets)
Initial setting: 2
If you select MC TEST RUN, the main charger cleaning operation will be performed once.
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>
<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 CLEAR on the touch panel.
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>
</table>

<table>
<tr><th>Maintenance item No.</th><th>Description</th></tr>
<tr><td>U111</td><td>
Checking/clearing the drum drive time
Description
Displays the drum drive time for checking, clearing or changing a figure, which is used as a reference when correcting the high voltage based on time.
Purpose
To check the drum status. Also used to clear the drive time after replacing the drum.
Method
Press the start key. The drum drive time is displayed.
Clearing
1. Press the reset key.
2. Press the start key. The drive time is cleared, and the screen for selecting a maintenance item No. is displayed.
Setting
1. Enter a five-digit drive time using the numeric keys.
2. Press the start key. The drive time is set, and the screen for selecting a maintenance item No. is displayed.
Completion
To exit the maintenance mode without changing the drive time, press the stop/clear key. The screen for selecting a maintenance item No. is displayed.
</td></tr>
<tr><td>U114</td><td>
Selecting AC mode
Description
Sets separation control for A3, B4, A4R, 11" × 17", 11" × 15", and 8 1/2" × 14" sizes.
Purpose
To change the setting to solve the problem of faulty image.
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>NORMAL
ON</td><td>Separation voltage ON only for the leading edge
Separation voltage ON for overall area</td></tr>
</table>
Initial setting: ON (for the inch specifications)
NORMAL (for the metric specifications)
3. Press the start key. The setting is set, and the screen for selecting a maintenance item No. is displayed.
Supplement
Note that if the setting is changed from ON to NORMAL, faulty transfer of gray image may occur and that if the setting is changed from NORMAL to ON, horizontal black stripes may occur.
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>
</table>

Maintenance item No.	Description
U126	**Setting effective potential correction** **Description** Sets the correction interval and the correction target value for effective potential correction. **Purpose** To run when replacing the drum or when a density failure which may be caused mainly by the drum occurs. **Method** Press the start key. The screen for selecting an item is displayed. **Setting** 1. Select the item to change the setting. 2. Use the numeric keys to change the setting value.

Display	Description	Setting range	Initial setting
START (M)	Drum drive time for starting correction	0 to 600000	17000
INTERVAL (M)	Correction interval for effective potential correction	0 to 600000	1000
TARGET	Effective correction target value	0 to 999	550
RUN	To run the test operation	–	–

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

Test operation

1. Select RUN and start test operation.

* After correction is complete, each data will be displayed.

Display	Description
VO A	Dark potential measurement A acquired data
VR A	Light potential measurement A acquired data
VO B	Dark potential measurement B acquired data
VR B	Light potential measurement B acquired data
VO TARGET	Target dark potential calculation result
DB CAL	Developing bias calculation result

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.

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<table>
<tr><th>Maintenance item No.</th><th>Description</th></tr>
<tr><td>U130</td><td>
Initial setting for the developer
Description
Automatically sets the toner sensor control voltage and toner feed start level for the installed developer.
Purpose
To set the initial settings for the developer when installing the machine or replacing the developer.
Method
1. Press the start key. The screen for executing is displayed.
2. Press the start key. The initial settings for the developer is set, and the result is displayed.
<table>
<tr><th>Display</th><th>Description</th></tr>
<tr><td>INPUT
CONTROL
FIRST TARGET
HUMID</td><td>Toner sensor output value
Toner sensor control voltage
Toner feed start level
Absolute humidity</td></tr>
</table>
Supplement
The following data is also renewed or cleared by performing this maintenance item:
• Renewing the toner sensor control voltage (U131)
• Renewing the toner feed start level (U156)
• 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>U131</td><td>
Setting the toner sensor control voltage
Description
Displays or changes the toner sensor control voltage automatically set in maintenance item U130.
Purpose
To check the automatically set toner sensor control voltage. Also to change the toner density if an image is too dark or light.
Method
Press the start key. The screen for adjustment is displayed.
Setting
1. Adjust the setting using the cursor up/down keys.
<table>
<tr><th>Description</th><th>Setting range</th><th>Initial setting</th></tr>
<tr><td>Toner sensor control voltage</td><td>0 to 255</td><td>154</td></tr>
</table>
Increasing the setting makes the density higher, and decreasing it makes the density lower.
Increasing the setting too high may result in toner scattering.
2. Press the start key. The value is set.
Completion
Press the stop/clear key at the screen for adjustment. 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>U132</td><td>
Replenishing toner forcibly
Description
Replenishes toner forcibly until the toner sensor output value reaches the toner feed start level.
Purpose
Used when the toner empty is detected frequently.
Method
1. Press the start key. The screen for executing is displayed.
2. Press the start key. Operation starts, and the current data is displayed.
Toner is replenished until the toner sensor output value reaches the toner feed start level.
<table>
<tr><th>Display</th><th>Description</th></tr>
<tr><td>INPUT
CONTROL
TARGET
HUMID</td><td>Toner sensor output value after start key is pressed
Current toner feed start level
Current toner sensor control voltage
Absolute humidity</td></tr>
</table>
3. To stop operation, press the stop/clear key.
Completion
Press the stop/clear key when toner replenishment stops. The screen for selecting a maintenance item No. is displayed.
</td></tr>
<tr><td>U135</td><td>
Checking toner motors operation
Description
Drives the toner motor.
Purpose
To check the operation of the toner motor.
Caution
Note that driving the motor unnecessarily long may cause a toner jam, resulting in machine lockup. Be sure to drive the motor for only a few seconds.
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. The toner motor turns on.
<table>
<tr><th>Display</th><th>Motor</th></tr>
<tr><td>MOTOR1
MOTOR2</td><td>Toner feed motor (TFM)
Toner agitation motor (TAM)</td></tr>
</table>
3. To stop operation, 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>U136</td><td>
Turning the toner level detection function on/off
Description
Turning the control based on the toner level sensor output on/off.
Purpose
To enable copying using the toner in the developing section after the toner level in the toner hopper decreases, by turning the control function off.
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>Controls based on the detection by the toner sensor detection sensor
Ignores the detection by the toner level detection sensor</td></tr>
</table>
Initial setting: ON
2. Press the start key. The value is set.
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>
</table>

<table>
<tr><th>Maintenance item No.</th><th>Description</th></tr>
<tr><td>U137</td><td>
Checking the toner level detection sensor
Description
Displays the detection status of the toner level detection sensor and toner hopper lockup detection sensor.
Purpose
To check the toner level in the toner hopper.
Method
1. Press the start key. The screen for executing is displayed.
<table>
<tr><th>Display</th><th>Description</th></tr>
<tr><td>TE SW</td><td>Toner level detection sensor (toner level in the toner hopper)</td></tr>
</table>
When there is toner or if the sensor connector is disconnected, on is detected , and the corresponding display is displayed in reverse.
Completion
Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.
</td></tr>
<tr><td>U147</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 adjustment is displayed.
2. Select ON or OFF for MODE1 or MODE2. The selected item is displayed in reverse.
<table>
<tr><th>Display</th><th>Description</th></tr>
<tr><td>MODE1
ON
OFF
MODE2

ON
OFF</td><td>Toner loading at the rate of one time every 30 sheets
Toner loading performed in MODE1
Toner loading not performed in MODE1
Toner loading at the rate of one time per sheet (between two sheets of paper)
Toner loading performed in MODE2
Toner loading not performed in MODE2</td></tr>
</table>
Initial setting: MODE1: ON MODE2: OFF
3. 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 value, press the stop/clear key. The screen for selecting a maintenance item No. is displayed.
</td></tr>
<tr><td>U155</td><td>
Displaying the toner sensor output
Description
Displays the toner sensor output value, and related data.
Purpose
To check the toner sensor output value.
Method
1. Press the start key. The screen for executing is displayed.
2. Press the start key. The current data is displayed.
<table>
<tr><th>Display</th><th>Description</th></tr>
<tr><td>INPUT
TARGET

CONTROL
HUMID
OUT TEMP</td><td>Toner sensor output value after start key is pressed
Current toner feed level
(value corrected based on humidity and drive time)
Current toner sensor control voltage
Absolute humidity
External temperature</td></tr>
</table>
3. Press the stop/clear key. The sampling operation stops.
Completion
Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.
</td></tr>
</table>

Maintenance item No.	Description
U156	**Changing the toner control level** **Description** Changes the toner control reference voltage set in maintenance item U130 or the toner control level or the toner empty level to be determined by the difference from the toner control level. The setting for this maintenance item does not need to be changed. **Purpose** To check the toner feed start level and toner empty level. **Method** Press the start key. The screen for selecting an item is displayed.

Display	Description
TARGET	Toner control level
EMPTY	Difference between the toner control level and toner empty level
FIRST TARGET	Toner control reference voltage for initial developer setting

Setting for the toner control level

1. Press the TARGET on the touch panel of the screen for selecting an item.
2. Change the setting using the cursor up/down keys.

Description	Setting range	Initial setting
Toner control level	0 to 255	102

   Increasing the setting makes the toner density lower.
3. Press the start key. The time is set.

Setting for the toner empty level

1. Press the EMPTY on the touch panel of the screen for selecting an item.
2. Change the setting using the cursor up/down keys.

Description	Setting range	Initial setting
Difference between the toner control level and the toner empty level	0 to 255	30

   Increasing the setting makes the toner empty level higher: the toner density is lower when the toner empty is detected.
3. Press the start key. The time is set.

Setting for the toner control reference voltage

1. Press the FIRST TARGET on the touch panel of the screen for selecting an item.
2. Change the setting using the cursor up/down keys.

Description	Setting range	Initial setting
Toner control reference voltage	0 to 255	102

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

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>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 screen for selecting an item is displayed.
<table>
<tr><th>Display</th><th>Description</th></tr>
<tr><td>MAG TIME(M)
AGT TIME(M)</td><td>Image formation motor drive time
Paper feed motor drive time</td></tr>
</table>
Clearing
1. Select the item to be cleared.
2. Press the reset key.
3. Press the start key. The drive time is cleared, and the screen for selecting a maintenance item No. is displayed.
Setting
1. Select the item to be changed.
2. Enter a five-digit drive time (in minutes) using the numeric keys.
3. Press the start key. The drive time is set, and the screen for selecting a maintenance item No. is displayed.
Completion
To exit this maintenance item without changing the drive time, press the stop/clear key. The screen for selecting a maintenance item No. is displayed.
</td></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>U160</td><td>
Applying toner to the cleaning blade
Description
Applies toner to the cleaning blade.
Purpose
To apply toner to the drum to coat the cleaning blade. To be executed when replacing or cleaning the cleaning blade or the drum.
Method
1. Press the start key. The screen for executing is displayed.
2. Press the start key. Operation starts.
When the operation is complete, the screen for selecting a maintenance item No. is displayed after open and close the front cover.
Completion
To exit this maintenance item without performing operation, 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>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
Press the start key. The screen for adjustment is displayed.
<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
TIME
THICK ADJ</td><td>Control temperature during copying
Primary stabilization fixing temperature
Secondary stabilization fixing temperature
Aging time after secondary stabilization
Compensation value for setting card stock/postcard through the bypass</td><td>170 to 200 (°C)
140 to 200 (°C)
170 to 200 (°C)
0 to 180 (s)
0 to 15 (°C)</td><td>185
165
185
120
10</td></tr>
</table>
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.
The respective temperatures are to be set such that 2ND TEMP ≧ 1ST TEMP.
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>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 EXECUTE 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>U194</td><td>
Setting the fixing web drive
Description
Sets the interval (number of copies) for turning on the fixing web solenoid.
Purpose
To be executed when the fixing web roller becomes extremely soiled.
Method
Press the start key. The screen for adjustment 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>Interval for turning on the fixing web solenoid</td><td>1 to 40</td><td>30</td></tr>
</table>
2. Press the start key. The value is set.
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 2 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>U198</td><td>
Setting the fixing phase control
Description
Sets the use of fixing phase control to reduce electrical noise generated by the copier.
Purpose
Normally no change is necessary. If electrical noise generated by the copier causes flickering of the lights around the copier, select fixing phase control to reduces the noise.
Method
Press the start key. The screen for adjustment 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>Fixing phase control present
Fixing phase control absent</td></tr>
</table>
Initial setting: ON (220-240 V specifications) / OFF (120 V specifications)
2. If you select ON, use the ∗ or # key to set 0 (100 V system fixing heater phase control) or 1 (200 V system fixing heater phase control).
3. Press the start key. The value is set.
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>
</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 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 and the operation starts.
<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. 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>

Maintenance item No.	Description
U206	**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.
U207	**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.
U208	**Setting the paper size for the large paper deck** **Description** Sets the sizes of paper placed in drawer 3, drawer 4 and optional side deck (55 cpm copier only) respectively. **Purpose** To set the size when the size of paper placed in drawer 3, drawer 4 or optional side deck is changed. **Method** Press the start key. The screen for selecting an item is displayed. **Setting** 1. Select the paper size (A4/11" $\times$ 8$^1/_2$" or B5). The selected item is displayed in reverse. Initial setting: A4/11" $\times$ 8$^1/_2$" 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.

<table>
<tr><th>Maintenance item No.</th><th>Description</th></tr>
<tr><td>U209</td><td>
Setting date and time
Description
Sets the real time clock.
Purpose
To set the date and time after initializing data.
Method
1. Press the start key. The screen for executing is displayed. The current setting for the year is displayed.
2. Set the year (last two digits of the year) using the numeric or Up/Down keys and press the start key. For years 2000 to 2009, enter only the last digit. The current setting for the month is displayed.
3. Set the month using the numeric or Up/Down keys and press the start key. The current setting for the date is displayed.
4. Set the date using the numeric or Up/Down keys and press the start key. The current time setting for hours is displayed.
5. Set the hours using the numeric or Up/Down keys and press the start key. The current time setting for minutes is displayed.
6. Set the minutes using the numeric or Up/Down keys and press the start key. Setting is complete, and the screen for selecting a maintenance item No. is displayed.
Supplement
To return to the last screen, press the stop/clear key while setting.
Completion
To stop this maintenance item without changing the current setting, press the stop/clear key at the screen for the year setting. The screen for selecting a maintenance item No. is displayed.
</td></tr>
<tr><td>U212</td><td>
Setting the deck lift operation
Description
Sets the operation of the side deck (55 cpm copier only) lift motor for when paper in the optional side deck is exhausted.
Purpose
To be set according to the paper loading method.
Method
Press the start key. The screen for selecting an item is displayed.
Setting
1. Select the method to load paper.
<table>
<tr><th>Display</th><th>Description</th></tr>
<tr><td>SIDE FEED
UPPER FEED</td><td>Load paper through the right cover
Load paper through the upper cover</td></tr>
</table>
Initial setting: SIDE FEED
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>U235</td><td>
Setting output tray initialize mode
Description
Sets whether or not initialization (shift of eject position to main tray) is performed when auto clear is triggered if a multi-job tray is installed to an optional finisher.
Purpose
To be set as required according to the user.
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.
<table>
<tr><th>Display</th><th>Description</th></tr>
<tr><td>HP ON
HP OFF</td><td>Job tray initialization is performed.
Job tray initialization is not performed.</td></tr>
</table>
Initial setting: HP ON
</td></tr>
</table>

<table>
<tr><th>Maintenance item No.</th><th>Description</th></tr>
<tr><td>U235</td><td>2. Press the start key. The setting is set, and the screen for selecting a maintenance item No. 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>U240</td><td>Checking the operation of the finisher
Description
Turns each motor, clutch and solenoid of the optional document finisher ON.
Purpose
Used to check the operation of each motor, clutch and solenoid of the optional document finisher.
Method
1. Press the start key. The screen for selecting an item will be displayed.
2. Select the motor, clutch or solenoid that you want to check the operation for. The selected item is displayed in reverse and the operation starts.
<table>
<tr><th>Display</th><th>Motors, clutches and solenoids</th></tr>
<tr><td>CONV MOTOR</td><td>Paper conveying motor (PCM)</td></tr>
<tr><td>PUNCH MOTOR</td><td>Punch motor (PUNM)</td></tr>
<tr><td>WID T MOTOR</td><td>Front/rear upper side-registration guide motor (SRGM-FU/SRGM-RU)</td></tr>
<tr><td>WID U MOTOR</td><td>Lower side-registration guide motor (SRGM-L)</td></tr>
<tr><td>MTRAY MOTOR</td><td>Main tray elevation motor (MTEM)</td></tr>
<tr><td>JTRAY MOTOR</td><td>Multi job tray elevation motor (MJTEM)</td></tr>
<tr><td>BRA A SOL</td><td>Feedshift solenoid A (FSSOLA)</td></tr>
<tr><td>BRA B SOL</td><td>Feedshift solenoid B (FSSOLB)</td></tr>
<tr><td>BRA C SOL</td><td>Feedshift solenoid C (FSSOLC)</td></tr>
<tr><td>PUNCH P SOL</td><td>Punch solenoid (PUNSOL)</td></tr>
<tr><td>MTRAY SOL</td><td>Paper holder solenoid (PHSOL)</td></tr>
<tr><td>EJEC SOL</td><td>Eject guide solenoid (EGSOL)</td></tr>
<tr><td>PUNCH I SOL</td><td>Paper entry guide solenoid (PEGSOL)</td></tr>
<tr><td>MIDDLE SOL</td><td>Movable guide solenoid (MGSOL)</td></tr>
<tr><td>DRAM CL</td><td>Siding drum clutch (SDCL)</td></tr>
<tr><td>FEED IN CL</td><td>Paper conveying clutch (PCCL)</td></tr>
<tr><td>PUNCH CL</td><td>Punch clutch (PUNCL)</td></tr>
<tr><td>SADDLE ROL1</td><td>Main motor (MM)</td></tr>
<tr><td>SADDLE ROL2</td><td>Main motor (MM)</td></tr>
<tr><td>SADDLE BLD</td><td>Centerfold blade motor (SBLM)</td></tr>
<tr><td>SADDLE INI1</td><td>Centering plate motor (CPM)</td></tr>
<tr><td>SADDLE INI2</td><td>Side-registration guide motor (SRGM)</td></tr>
<tr><td>SADDLE SOL</td><td>Pressure release solenoid (PRSOL)</td></tr>
</table>
3. To turn ON a clutch or solenoid with the motor driving, press the interrupt key before selecting the clutch or solenoid.
* The driving motor will start operation, and the selected clutch or the solenoid will remain ON until the interrupt key is pressed again.
4. To stop motor driving, press the interrupt key again.
5. To return to the screen for selecting an item, press the stop/clear key with the motor stopped.
Completion
Press the stop/clear key when the operation stops. The screen for selecting a maintenance item No. is displayed.</td></tr>
</table>

Maintenance item No.	Description
U241	**Checking the operation of the switches of the finisher** **Description** Displays the status of each switch of the optional document finisher. **Purpose** Used to check the operation of each switch of the optional document finisher. **Method** 1. Press the start key to run the maintenance item. 2. Turn each switch ON manually. * When a switch is detected to be in the ON position, the display for that switch will be highlighted.

Display	Switches
CONV	Paper entry sensor (PES)
EJECT SUB	Paper ejection sensor (PEJS)
CONV TRAY	Intermediate tray paper conveying sensor (ITPCS)
EJECT MAIN	Sub tray paper ejection sensor (STPES)
TRAY U PAP	Upper paper sensor (PS-U)
TRAY L PAP	Lower paper sensor (PS-L)
MTRAY U LMT	Main tray upper limit detection sensor (MTULDS)
MTRAY L LMT	Main tray lower limit detection sensor (MTLLDS)
MTRAY POS	Main tray paper upper surface detection light emitting/intercepting sensor (MTPUSDLES/MTPUSDLIS)
MTRAY PUSH	Paper holder detection sensor (PHDS)
MTRAY OVER1	Main tray load 1000 detection sensor (MTLDS-10)
MTRAY OVER2	Main tray load 1500 detection sensor (MTLDS-15)
MTRAY OVER3	Main tray load 3000/2000 detection sensor (MTLDS-30/MTLDS-20)
JOB U LMT	Multi job tray upper limit detection sensor (MJTULDS)
JOB L LMT	Multi job tray lower limit detection sensor (MJTLLDS)
JOB SAFETY	Multi job tray front/rear switch (MJTSW-F/MJTSW-R)
JOB POS	Multi job tray position sensor (MJPS)
JOB OVER	Multi job tray paper upper surface detection light emitting/intercepting sensor (MJTPUSDLES/MJTPUSDLIS)
JOB PAP1	Paper detection switch 1 (PDSW1)
JOB PAP2	Paper detection switch 2 (PDSW2)
JOB PAP3	Paper detection switch 3 (PDSW3)
JOB PAP4	Paper detection switch 4 (PDSW4)
JOB PAP5	Paper detection switch 5 (PDSW5)
SDL CONV	Centerfold unit paper entry sensor (CUPES)
SDL EJECT	Eject switch (ESW)
SDL PAP	Eject tray paper detection switch (ETPDSW)
SDL BIN PAP	Inside tray detection sensor (ITDS)

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>U243</td><td>
Checking the operation of the DF motors, solenoids and clutch
Description
Turns the motors, solenoids or clutch in the 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 DF.
Purpose
To check if respective switches in the 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 (SW)
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 SW</td><td>Original set switch (OSSW)</td></tr>
<tr><td>FEED SW</td><td>Original feed switch (OFSW)</td></tr>
<tr><td>REV SW</td><td>Original switchback switch (OSBSW)</td></tr>
<tr><td>TMG SW</td><td>DF timing switch (DFTSW)</td></tr>
<tr><td>SZ A SW</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 (VR)***

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.

Numerical value	Original width to be detected
000 ⋮ 49.664	A5R
50.176 ⋮ 61.440	$5^1/_2" \times 8^1/_2"$
61.952 ⋮ 103.936	B5R
104.448 ⋮ 139.264	Folio/A4R
139.776 ⋮ 146.432	B4/B5
146.994 ⋮ 197.120	$8^1/_2" \times 14"$/ $8^1/_2" \times 11"$
197.632 ⋮ 197.720	CF (11" × 15")
223.232 ⋮ 256	A3/A4
	11" × 17"/ 11" × 15"/ $11" \times 8^1/_2"$

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>U247</td><td>
Setting the paper feed device
Descrioption
Drives each motor of the optional side deck.
Purpose
To check the operation of the optional side deck.
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>Motor</th></tr>
<tr><td>SDECK MOT</td><td>Side deck drive motor (SDDM)</td></tr>
<tr><td>SDECK FAN</td><td>Suction fan motor (IFM)</td></tr>
<tr><td>SDECK LIFT</td><td>Side deck lift motor (SDLM)</td></tr>
<tr><td>SDECK CVCL</td><td>Side deck paper conveying clutch (SDCCL)</td></tr>
<tr><td>SDECK FDCL</td><td>Side deck paper feed clutch (SDPFCL)</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>
</table>

Maintenance item No.	Description
U248	**Setting the paper eject devices**

Descrioption

Adjusts the amount of slack in the paper for finisher punch mode, the booklet stapling position, and the center folding position for the copier with an optional finisher installed. *Also, displays and clears the punch-hole scrap count.*

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.
- *Punch-hole scrap count display (clearing)*
  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.
- Adjustment of booklet stapling position
  Adjusts the booklet stapling position in the stitching mode if the position is not proper.
- Adjustment of center folding position
  Adjusts the center folding position in the stitching mode if the position is not proper.

Start

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

Display	Operation
PUNCH TIMING	Adjustment of the amount of slack in the paper in punch mode
PUNCH TIMING(TURN)	*Adjustment of the amount of slack in the paper at reversed paper ejection in punch mode*
PUNCH COUNT	*Punch-hole scrap count display*
SADDLE STAPLE ADJUST	Booklet stapling position adjustment
SADDLE ADJUST	Adjustment of center folding position
SADDLE ADJUST 2	*Adjustment of center folding position (correction of number of sheets of a batch)*

Setting the amount of slack in the paper

1. Select PUNCH TIMING on the screen for selecting an item.
2. *Select the paper size to be set.*
3. Change the setting using the cursor up/down keys.

Display	*Description*	*Setting range*	*Initial setting*
B5	*Amount of slack in the paper of B5 size*	*-15 to +15*	*0*
A4/11 × 8.5	*Amount of slack in the paper of A4/11" × 8 1/2" size*	*-15 to +15*	*0*
B5R	*Amount of slack in the paper of B5R size*	*-15 to +15*	*0*
A4R/8.5 × 11	*Amount of slack in the paper of A4R/8 1/2" × 11" size*	*-15 to +15*	*0*
B4/8.5 × 14	*Amount of slack in the paper of B4/8 1/2" × 14" size*	*-15 to +15*	*0*
A3/11 × 17	*Amount of slack in the paper of A3/11" × 17" size*	*-15 to +15*	*0*

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.
Changing the value by 1 changes the amount of slack by 1.0 mm.

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

Maintenance item No.	Description
U248	***Setting the amount of slack in the paper at reversed paper ejection***

1. Select PUNCH TIMING(TURN) on the screen for selecting an item.
2. Select the paper size to be set.
3. Change the setting using the cursor up/down keys.

Display	*Description*	*Setting range*	*Initial setting*
B5	*Amount of slack in the paper at reversed paper ejection of B5 size*	*-15 to +15*	*0*
A4/11 × 8.5	*Amount of slack in the paper at reversed paper ejection of A4/11" × 8 1/2" size*	*-15 to +15*	*0*
B5R	*Amount of slack in the paper at reversed paper ejection of B5R size*	*-15 to +15*	*0*
A4R/8.5 × 11	*Amount of slack in the paper at reversed paper ejection of A4R/8 1/2" × 11" size*	*-15 to +15*	*0*
B4/8.5 × 14	*Amount of slack in the paper at reversed paper ejection of B4/8 1/2" × 14" size*	*-15 to +15*	*0*
A3/11 × 17	*Amount of slack in the paper at reversed paper ejection of A3/11" × 17" size*	*-15 to +15*	*0*

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.
Changing the value by 1 changes the amount of slack by 1.0 mm.

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

Displaying the punch-hole scrap count

1. Select PUNCH COUNT on the screen for selecting an item. The punch-hole scrap count is displayed.
2. Press the reset key.

Description	*Setting range*	*Initial setting*
Punch-hole scrap count (current number of punching times)	*0 to 999999*	*-*

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

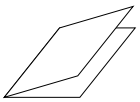
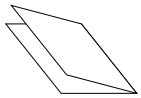
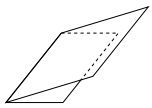
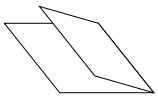
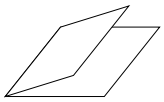
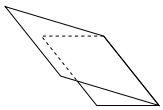
Setting the booklet stapling position

1. Select SADDLE STAPLE ADJUST on the screen for selecting an item.
2. Select the size to be set.
3. Change the setting using the cursor up/down keys.

Display	Description
A4R/LTR	Adjustment of booklet stapling position for A4R/LETTER size
B4R	Adjustment of booklet stapling position for B4R size
A3R/LDR	Adjustment of booklet stapling position for A3R/LEDGER size

Setting range: –10 to +10
Initial setting: 0
Change in value per step: 0.6 mm

Maintenance item No.	Description
U248	

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.

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

Setting the center folding position

1. Select SADDLE ADJUST on the screen for selecting an item.
2. Select the size to be set.
3. Change the setting using the cursor up/down keys.

Display	Description
A4R/LTR	Adjustment of center folding position for A4R/LETTER size
B4R	Adjustment of center folding position for B4R size
A3R/LDR	Adjustment of center folding position for A3R/LEDGER size

Setting range: –10 to +10
Initial setting: 0
Change in value per step: 0.55 mm

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

Setting the center folding position (correction of number of sheets of a batch)

1. Select SADDLE ADJUST 2 on the screen for selecting an item.
2. Select the item to be set.
3. Change the setting using the cursor up/down keys.

Display	*Description*
A4R/LTR(2)	*Adjustment of center folding position for A4R/LETTER size (Number of sheets of a batch: 6 - 10 sheets)*
B4R(2)	*Adjustment of center folding position for B4R size (Number of sheets of a batch: 6 - 10 sheets)*
A3R/LDR(2)	*Adjustment of center folding position for A3R/LEDGER size (Number of sheets of a batch: 6 - 10 sheets)*
A4R/LTR(3)	*Adjustment of center folding position for A4R/LETTER size (Number of sheets of a batch: 11 - 16 sheets)*
B4R(3)	*Adjustment of center folding position for B4R size (Number of sheets of a batch: 11 - 16 sheets)*
A3R/LDR(3)	*Adjustment of center folding position for A3R/LEDGER size (Number of sheets of a batch: 11 - 16 sheets)*

Setting range: -10 to +10
Initial setting: 0
Change in value per step: 0.55 mm

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

Maintenance item No.	Description
U248	***Supplement*** *If the items of SADDLE ADJUST are changed, those of SADDLE ADJUST 2 will also be changed. SADDLE ADJUST 2, therefore, need not be changed in principle. Only if any problem occurs at the center folding position depending on the number of sheets of a batch, adjust SADDLE ADJUST 2.* **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>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.
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>400000 (45 cpm copier)/500000 (55 cpm copier)</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>
<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>
</table>

<table>
<tr><th>Maintenance item No.</th><th>Description</th></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 setting, 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>
<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/LEDGER or B4/LEGEL 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>SINGLE COUNT
DOUBLE COUNT(A3/LEDGER)
DOUBLE COUNT(B4/LEGEL)</td><td>Single count for all size paper
Double count for A3/LEDGER paper only
Double count for B4/LEGEL size or larger</td></tr>
</table>
Initial setting: DOUBLE COUNT(A3/LEDGER)
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>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>
<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 (s)</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>
</table>

Maintenance item No.	Description
U256	**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. 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.

Display	Description
ON	Auto preheat/energy saver function on
OFF	Auto preheat/energy saver function off

Maintenance item No.	Description
U258	**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. **Purpose** To change the copying operation after detection of toner empty status. **Method** Press the start key. The screen for selecting an item is displayed.

Display	Description
EMPTY COUNT	Number of copies to be made after turning off of the toner level sensor before indicating toner empty
EMPTY MODE	Operation of copies after toner empty detection

Setting the number of copies after turning off of the toner level sensor before indicating toner empty

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

Description	Setting range	Initial setting
Number of copies to be made after turning off of the toner level sensor before indicating toner empty	100 to 300 (copies)	200

The setting can be changed by 100 per step.

2. Press the start key. The value is set, and the screen for selecting a maintenance item No. is displayed.

Setting the copy operation after toner empty detection

1. Select single or continuous copying. The selected item is displayed in reverse.

Display	Description
SINGLE	Enables only single copying.
CONTINUE	Enables single and continuous copying.

Initial setting: SINGLE

2. Set the number of copies that can be made using the cursor up/down keys.

Description	Setting range	Initial setting
Number of copies after toner empty detection	0 to 200 (copies)	5

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

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>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>
<tr><td>U263</td><td>
Setting the paper ejection when copying from the DF
Description
Sets whether the copies will be ejected in the same or opposite order as the originals when copying from the DF.
Purpose
Set according to the preference of the user.
Method
Press the start key. The screen for selecting an item is displayed.
Setting
1. Select the ejection order.
<table>
<tr><th>Display</th><th>Setting</th></tr>
<tr><td>FACE-DOWN (NOMAL)
FACE-UP (SPEED)
FACE-UP (MEMORY)</td><td>Face down ejection
Face up ejection with bitmap copy
Face up ejection with memory copy</td></tr>
</table>
Initial setting: FACE-DOWN
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>U264</td><td>
Setting the display order of the date
Description
Selects year, month and day as the order of that appears on lists, etc.
Purpose
Set according to the user preference.
Method
Press the start key. The screen for selecting an item is displayed.
Setting
1. Select the desired order.
<table>
<tr><th>Display</th><th>Setting</th></tr>
<tr><td>YEAR-MONTH-DATE
MONTH-DATE-YEAR
DATE-MONTH-YEAR</td><td>Year/Month/Day
Month/Day/Year
Day/Month/Year</td></tr>
</table>
Initial setting: MONTH-DATE-YEAR (for the inch specifications)
DATE-MONTH-YEAR (for the metric specifications)
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>U265</td><td>
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 No. is displayed.
</td></tr>
</table>

<table>
<tr><th>Maintenance item No.</th><th>Description</th></tr>
<tr><td>U266</td><td>
Setting the number of days after which to automatically delete documents
Descrioption
Sets the number of days to save documents on the HDD before automatically deleting.
Purpose
To change the number of days to retain data that is saved within the auto-delete area of the HDD before automatically deleting.
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>Number of days after which to automatically delete documents</td><td>0 to 7 (days)</td><td>7</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>
<tr><td>U275</td><td>
Setting the number of sheets for duplex circulation
Descrioption
Sets the number of sheets for circulation in the duplex copy mode.
Purpose
To reduce the number of sheets for circulation if paper jams occur frequently in the duplex copy mode.
Method
1. Press the start key. The screen for selecting an item is displayed.
2. Select an item to be set.
<table>
<tr><th>Display</th><th>Description</th></tr>
<tr><td>MODE0
MODE1</td><td>Circulation of five sheets
Circulation of four sheets</td></tr>
</table>
Initial setting: MODE0
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>U277</td><td>
Setting auto application change time
Description
Sets the time that passes until the machine starts automatically printing after completing copying or operation when the machine is used as a printer (only if the printer kit is installed).
Purpose
According to user request, changes the setting.
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>Switching time</td><td>30 to 270 (s)</td><td>30</td></tr>
</table>
The setting can be changed by 30 s per step.
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>U329</td><td>
Default setting Auto rotation copy/Sort copy
Description
Sets the initial mode for the Auto rotation copy/Sort copy selected when auto clear is triggered or the reset key is pressed.
Purpose
To be set as required according to the user.
Method
1. Press the start key. The screen for selecting an item is displayed.
2. Select the item to be set.
Setting Auto rotation copy
1. Select ON or OFF.
Initial setting: ON
2. Press the start key. The setting is set, and the screen for selecting a maintenance item No. is displayed.
Setting Sort copy
1. Select ON or OFF.
Initial setting: ON
2. Press the start key. The setting is set, and the screen for selecting a maintenance item No. 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>U330</td><td>
Setting the number of sheets to enter stacking mode during sort operation
Description
Sets the number of copies at which copy ejection will be switched from the optional document finisher's sub tray to its main tray when sorting is turned ON in the setting for the output mode under user simulation.
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. 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>Number of copies to be ejected on the sub tray</td><td>0 to 100 (sheets)</td><td>100</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>
<tr><td>U331</td><td>
Switching the paper ejection mode
Descrioption
Sets whether to eject copied sheets with the printed face facing up or down.
Purpose
To be set according to user request.
Method
Press the start key. The screen for selecting an item is displayed.
Setting
1. Select the ejection mode. The selected item is displayed in reverse.
<table>
<tr><th>Display</th><th>Description</th></tr>
<tr><td>FACE UP
FACE DOWN</td><td>Face-up ejection
Face-down ejection</td></tr>
</table>
Initial setting: FACE UP
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>U332</td><td>
Setting the size conversion factor
Description
Sets the coefficient of nonstandard sizes in relation to the A4/11" × 8 1/2" size. The coefficient set here is used to convert the black ratio in relation to the A4/11" × 8 1/2" size and to display the result in user simulation.
Purpose
To set the coefficient for converting the black ratio for nonstandard sizes in relation to the A4/11" × 8 1/2" size for copying and printing respectively.
Method
Press the start key. The screen for selecting an item is displayed.
Setting
1. Select copying (COPY) or printing (PRT).
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>COPY
PRT</td><td>Size parameter for copying
Size parameter for printing</td><td>0.1 to 3.0
0.1 to 3.0</td><td>1.0
1.0</td></tr>
</table>
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 is displayed.
</td></tr>
<tr><td>U336</td><td>
Setting the HDD type
Descrioption
Sets the manufacturer and type of the HDD.
Purpose
To set data according to the manufacturer and type of the new HDD after replacement.
Method
Press the start key. The screen for selecting an item 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>HDD type</td><td>0 to 255</td><td>0</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 is displayed.
</td></tr>
<tr><td>U339</td><td>
Setting the drawer heater mode
Description
Sets the drawer heater to ON or OFF for the sleep mode.
Purpose
Change of setting is not needed in principle.
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>The drawer heater is on even if the main switch is off.
(The drawer heater is always on except during driving.)
The drawer heater is on only if the main switch is off.
(The drawer heater is off if the main switch is on.)</td></tr>
</table>
Initial setting: ON
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>
</table>

<table>
<tr><th>Maintenance item No.</th><th>Description</th></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>CASSETTE 1
CASSETTE 2
CASSETTE 3
CASSETTE 4
SIDE DECK</td><td>Drawer 1
Drawer 2
Drawer 3
Drawer 4
Optional side deck (55 cpm copier only)</td></tr>
</table>
3. 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 No. is displayed.
</td></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>
3. 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 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>Description</th></tr>
<tr><td>INSTANT READY</td><td>The fixing control temperature is not lowered and only the display on the operation panel is turned off.</td></tr>
<tr><td>ENERGY STAR</td><td>The fixing control temperature is lowered by 30°C/86°F and forced stabilization is performed 30 seconds after exiting preheat.</td></tr>
<tr><td>E 2000</td><td>The fixing control temperature is lowered by 30°C/86°F and forced stabilization is performed 30 seconds after exiting preheat.</td></tr>
<tr><td>TOP RUNNER</td><td>Control in accordance with Top Runner is performed.</td></tr>
</table>
Initial setting: ENERGY STAR
2. Press the start key. The setting is set, and the screen for selecting a maintenance item No. 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>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>
</table>

<table>
<tr><th>Maintenance item No.</th><th>Description</th></tr>
<tr><td>U347</td><td>
Setting auto drawer size detection
Description
Turns the auto drawer size detection function on/off.
Purpose
To be used when turning the auto paper size (in the drawers) detection off and making copies onto only the specified size paper.
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>Detects the paper sizes in the drawers automatically.
Does not detect the paper sizes in the drawers automatically.</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>
<tr><td>U350</td><td>
Setting the ID-code error output
Descrioption
Sets whether or not an error report is output when an ID-code error occurs.
Purpose
According to user request, changes the setting.
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>Error report is output
Error report is not output</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>U355</td><td>
Setting the output mode for face up output
Descrioption
Specifies whether to output from the first page so that the pages after the second page are stacked on the first page or to output from the last page so that the first page is stacked at the top when outputting face up in printing.
Purpose
Set according to the preference of the user.
Method
Press the start key. The screen for adjustment is displayed.
Setting
1. Select The selected item is displayed in reverse.
<table>
<tr><th>Display</th><th>Description</th></tr>
<tr><td>FIRST PRINT
ORDER OF PAGE</td><td>To output from the first page
To output from the last page</td></tr>
</table>
Initial setting: FIRST PRINT
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>U402</td><td>
Adjusting margins of image printing
Adjustment
See page 1-6-18.
</td></tr>
<tr><td>U403</td><td>
Adjusting margins for scanning an original on the contact glass
Adjustment
See page 1-6-38.
</td></tr>
<tr><td>U404</td><td>
Adjusting margins for scanning an original from the DF
Adjustment
See page 1-6-72.
</td></tr>
<tr><td>U407</td><td>
Adjusting the leading edge registration for memory image printing
Adjustment
See page 1-6-16.
</td></tr>
</table>

<table>
<tr><th>Maintenance item No.</th><th>Description</th></tr>
<tr><td>U504</td><td>
Initializing the scanner NIC
Description
Initializing the optional scanner NIC to its factory default.
Purpose
To return to a setup at the time of factory shipments.
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 scanner NIC is initialized.
Completion
To exit this maintenance item without executing initialization, press the stop/clear key. The screen for selecting a maintenance item No. is displayed.
</td></tr>
<tr><td>U505</td><td>
Setting Data Base Assistant
Description
Sets whether or not the database linkage setting is enabled if an optional network scanner is installed.
Purpose
According to user request, changes the setting.
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>Database linkage setting is enabled.
Database linkage setting is disabled.</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>
<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
FIRST
SECOND
THIRD
FORTH
SIDE DECK
DUPLEX</td><td>Bypass tray
Drawer 1
Drawer 2
Drawer 3
Drawer 4
Optional side deck (55 cpm copier only)
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 the reset key.
2. Press the start key. The count is cleared. When clearing all counts, 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>
</table>

<table>
<tr><th>Maintenance item No.</th><th>Description</th></tr>
<tr><td>U903</td><td>
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.
Implementation
Press the start key. The screen for selecting an item is displayed.
<table>
<tr><th>Display</th><th>Description</th></tr>
<tr><td>COUNT
TOTAL COUNT</td><td>Displays/clears the jam counts
Displays the total jam counts</td></tr>
</table>
Method: Displays/clears the jam counts
1. Select COUNT in the screen for selecting an item. The count for jam detection by type is displayed.
2. Change the screen using the ∗ or # keys.
3. Select the counts for all jam codes and press the reset key.
4. Press the start key. The count is cleared.
Method: Displays the total jam counts
1. Select TOTAL COUNT in the screen for selecting an item. The total number of jam counts by type is displayed.
2. Use the ∗ or # keys to switch the display.
The total number of jam count cannot be cleared.
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>U904</td><td>
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.
Implementation
Press the start key. The screen for selecting an item is displayed.
<table>
<tr><th>Display</th><th>Description</th></tr>
<tr><td>COUNT
TOTAL COUNT</td><td>Displays/clears the call for service counts
Displays the total call for service counts</td></tr>
</table>
Method: Displays/clears the call for service counts
1. Select COUNT in the screen for selecting an item. The count for call for service detection by type is displayed.
2. Change the screen using the ∗ or # keys.
3. Select the counts for all service call and press the reset key.
4. Press the start key. The count is cleared.
Method: Displays the total call for service counts
1. Select TOTAL COUNT in the screen for selecting an item. The total number of call for service counts by type is displayed.
2. Use the ∗ or # keys to switch the display.
The total number of call for service count cannot be cleared.
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>
</table>

<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 DF or optional finisher.
Purpose
To check the use of the DF and optional 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. 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
<table>
<tr><th>Display</th><th>Description</th></tr>
<tr><td>CP CNT
STAPLE
PUNCH
STACK
SADDLE</td><td>No. of copies that has passed
Frequency the stapler has been activated
Frequency the punch has been activated
Frequency the stacker has been activated
Frequency the center holding has been activated</td></tr>
</table>
Clearing
1. Select the item to be cleared. The selected item is displayed in reverse. Select the counts for all, press the reset key.
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>

<table>
<tr><th>Maintenance item No.</th><th>Description</th></tr>
<tr><td>U907</td><td>
Checking and resetting the count value on each ejection location
Description
Displays and resets the count value of ejected sheets on each ejection location.
Purpose
Checks the replacement period for maintenance parts. Also resets the count value after replacing the maintenance parts.
Method
Press the start key. The screen for selecting an item is displayed.
The count value on each ejection location is displayed
<table>
<tr><th>Display</th><th>Description</th></tr>
<tr><td>STRAIGHT
SWITCH BACK
AUTO DUPLEX</td><td>Straight ejection count
Reversed ejection count
Duplex tray ejection count</td></tr>
</table>
Clearing
1. Select the count to be cleared. The selected item is displayed in reverse.
To clear the counts for all, press the reset key.
2. Press the start key. The count is cleared, When clearing all counts, 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>U908</td><td>
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 screen for total count value is displayed.
<table>
<tr><th>Display</th><th>Description</th></tr>
<tr><td>TOTAL COUNT
TOTAL COUNT (MACHINE)</td><td>Electronic total counter value
Mechanical total counter value entered at the beginning</td></tr>
</table>
Clearing
1. Select the count to be cleared. The selected item is displayed in reverse.
2. Press the reset key.
3. 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>U909</td><td>
Checking/clearing the fixing web count
Description
Displays and clears the count of the fixing web roller operation.
Purpose
To clear the fixing web counts after replacing the fixing web roller during maintenance or for other reasons.
Method
Press the start key.
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 count, press the stop/clear key. The screen for selecting a maintenance item No. is displayed.
</td></tr>
</table>

Maintenance item No.	Description
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 No. is displayed.
U921	**Checking/clearing the waste toner box maintenance count value** **Description** Displays and clears the count value of waste toner box **Purpose** To check the period of replacement of waste toner box. Also to clear the count value after replacement. **Method** Press the start key. **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 count, 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>U922</td><td>
Checking/clearing the solenoid count value
Description
Displays and clears the count value of solenoid
Purpose
To check the period of replacement of solenoid. Also to clear the count value after replacement.
Method
Press the start key.
<table>
<tr><th>Display</th><th>Description</th></tr>
<tr><td>BRA SOL COUNT
DPRAS SOL COUNT</td><td>Feed shift solenoid (FSSOL)
Duplex pressure release solenoid (DUPPRSOL)</td></tr>
</table>
Clearing
1. Select the item to be cleared.
2. Press the reset key.
3. Press the start key. The value 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 value using the numeric keys.
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 count, press the stop/clear key. The screen for selecting a maintenance No. item is displayed.
</td></tr>
<tr><td>U923</td><td>
Checking/clearing the transfer charger cleaning count
Description
Displays or clears the count value for transfer charger cleaning.
Purpose
To clear the count value before replacing maintenance parts.
Method
Press the start key. The count value for transfer charger cleaning 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.
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>U960</td><td>
Outputting the machine used circumstances list
Description
Outputs machine used circumstances list and clears the data.
Purpose
To check the machine operation situation. Also to clear the data.
Method
Press the start key.
Outputting the list
1. Select OUTPUT.
2. Press the start key to output the list.
Clearing
1. Select COUNT CLEAR.
2. Press the start key to clear the count.
Completion
Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.
</td></tr>
</table>

Maintenance item No.	Description
U989	***HDD Scandisk*** ***Description*** *Restores data in the hard disk by scanning the disk.* ***Purpose*** *If power is turned off while accessing to the hard disk is performed, the control information in the hard disk drive may be damaged. Use this mode to restore the data.* ***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. When scanning of the disk is complete, the execution result is displayed.* *4. Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.* ***Completion*** *To exit this maintenance item without executing scandisk, press the stop/clear key. The screen for selecting a maintenance item No. is displayed.*
U990	**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.

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<table>
<tr><th>Maintenance item No.</th><th>Description</th></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 seven-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 count, press the stop/clear key. The screen for selecting a maintenance No. item is displayed.
</td></tr>
<tr><td>U992</td><td>
Checking or clearing the printer count
Description
Displays, clears or changes the print count of the printer when the optional printer board is installed.
Purpose
To check the frequency of use of the printer.
Method
Press the start key. The screen for the printer count of the printer is displayed.
Clearing
1. Press the reset key.
2. Press the start key. The count is cleared. The screen for selecting a maintenance item No. is displayed.
Setting
1. Enter a seven-digit count 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 count, press the stop/clear key. The screen for selecting a maintenance No. item is displayed.
</td></tr>
</table>