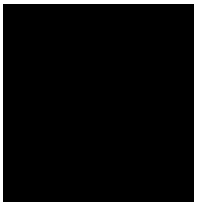
SWITCHES ON PWBs, TECH. REP. SETTINGS



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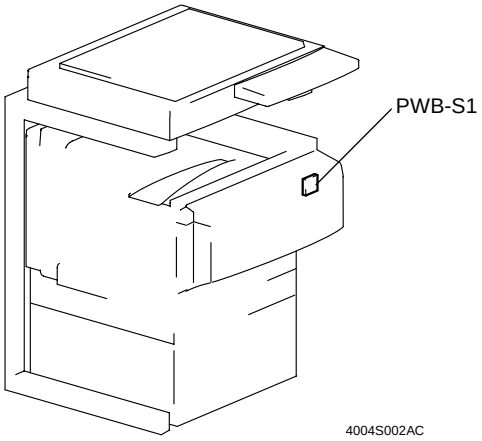
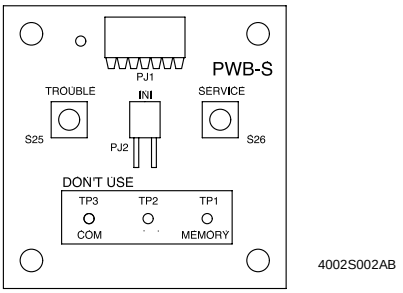
1. FUNCTION OF SWITCHES AND OTHER PARTS ON PWBs

1-1. PWB Location



1-2. PWB-S1 (Tech. Rep. Setting Switches Board)



Symbol	Name	Description
INI	Initialize Point	Resets a paper misfeed, malfunction, and erratic display.
MEMORY	Memory Clear Test Point	Clears data of various kinds stored in memory.
COM	COM Test Point	Ground used for memory clear.
TROUBLE	Trouble Reset Switch	Resets the following malfunction displays: Exposure Lamp system (C04XX), Fusing system (C05XX), Scanner system (C06XX), ROM contents failure detected upon start (C3FFF)
SERVICE	Not used	

(1) Initialize Procedure

1. Turn OFF the Power Switch.
2. With the circuit across pins of PJ2 closed, turn ON the Power Switch.
3. In about 5 sec., open the PJ2 circuit.
4. Check that the message “Initialize Completed” is displayed on the Touch Panel and then touch “END.”

(2) Memory Clear Procedure

1. Turn OFF the Power Switch.
2. With the circuit across TP1 and TP3 closed, turn ON the Power Switch.
3. In about 5 sec., open the circuit across TP1 and TP3.
4. Check that the message “Memory Clear Completed” is displayed on the Touch Panel and then touch “END.”
5. The following types of data are cleared.

- Utility mode: Input, User's Choice 1/2
- Tech. Rep. mode: System Input, Administrator # Input
- Security mode: Counter Setting
- Touch Panel Adj.

NOTES

- *If the copier exhibits an erratic display or operation, unplug and plug in the power cord, turn OFF and ON the Power Switch, and then perform the following procedures in this order: Initialize → Memory Clear.*
- *Do not perform Memory Clear casually, as it clears the types of data mentioned above. If Memory Clear has been performed, be sure to make settings for the functions that have been cleared once again.*

(3) Data/Conditions Cleared by Reset Switches/Pins

Data Cleared \ Clearing Method		Front Door Open/ Close	Trouble Reset Switch	Initialize	Memory Clear
Misfeed display		❍	—	❍	❍
Malfunction display	Fusing Optical Scanner C3FFF	—	❍	❍	❍
	Others	❍	❍	❍	❍
Erratic operation/display		—	❍	❍	❍
Utility Mode (Input, User's Choice:1,2)		—	—	—	❍
Tech. Rep. Mode (System Input, Administrator # Input)		—	—	—	❍
Security Mode (Counter Setting)		—	—	—	❍
Touch Panel Correction Mode		—	—	—	❍

❍: Cleared —: Not cleared

2. UTILITY MODE

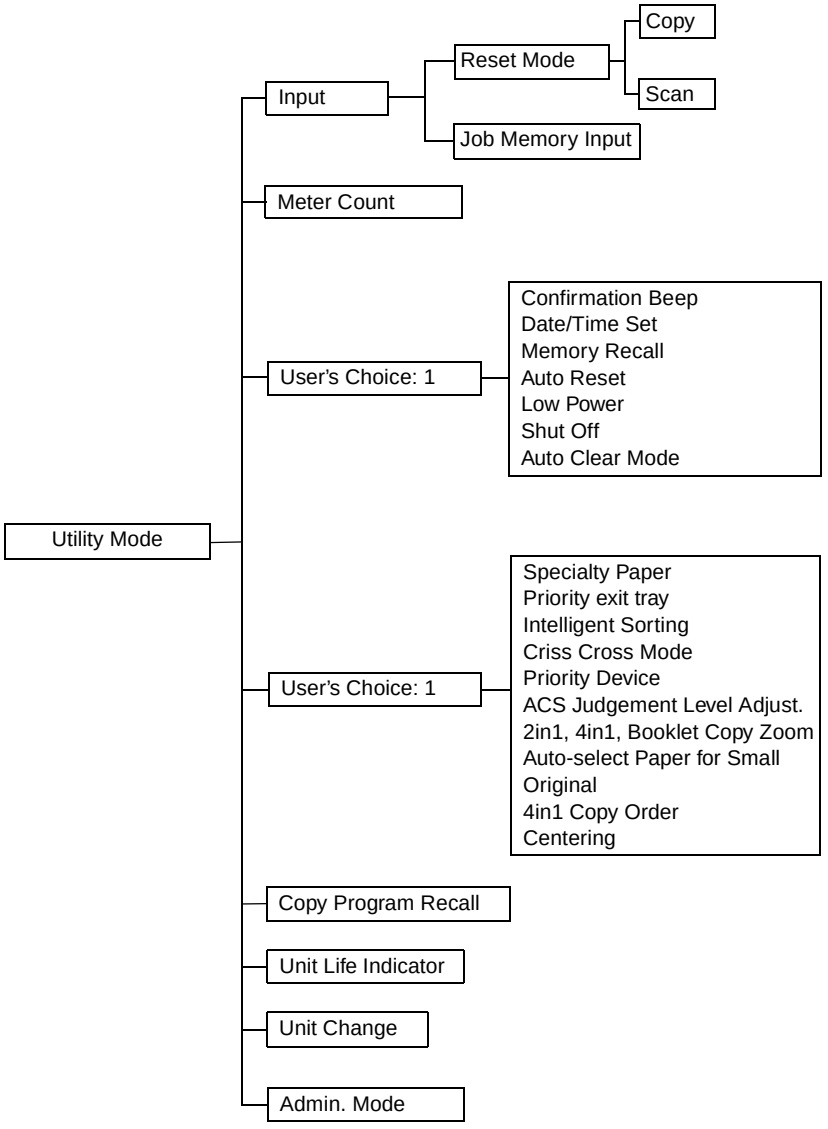
2-1. Utility Mode Function Setting Procedure

<Procedure>
1. Press the Utility key.
2. The Utility mode screen will appear.

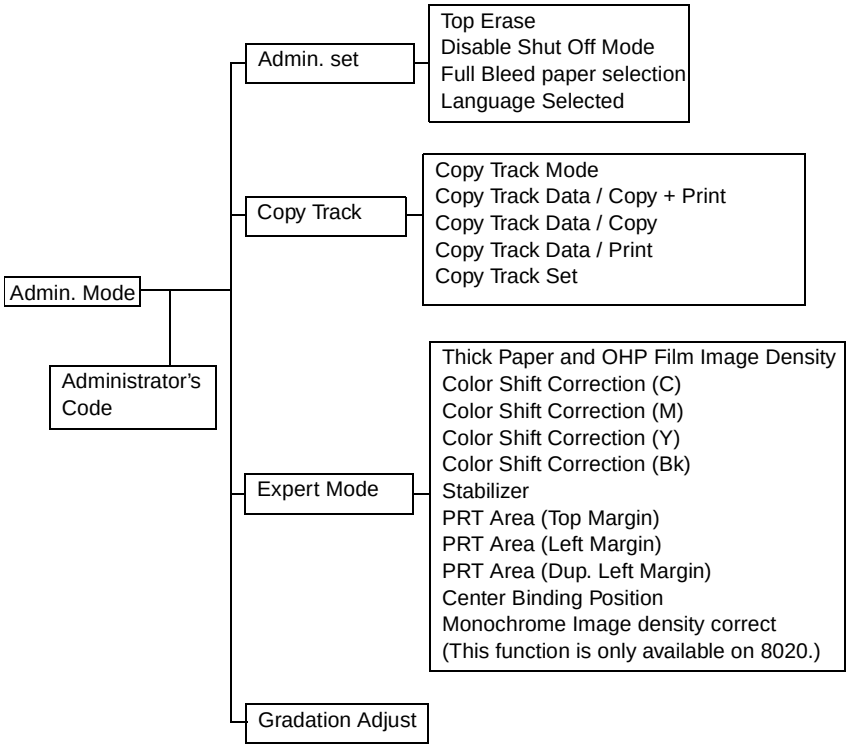
<Exiting>
- Touch the “Fin. Time” key.

<Changing the Setting Value in Utility Mode Functions>
- Use the ID key to change the + sign to - sign, or vice versa.
- Use the Up/Down key to enter or change the setting value.
- Use the 10-Key Pad to enter the setting value. (To change the setting value, first press the Clear key before making an entry.)

2-2. Utility Mode Function Tree



(1) Administrator Mode Function Tree



2-3. Setting in the Utility Mode

Input

Item	Purpose	Setting/Precautions
Reset Mode	To register the copy mode functions or scanner mode functions (when a printer controller is mounted) set when the copier is initialized.	"Set-up Mode" • The copy mode or scanner mode functions set arbitrarily on the panel are registered. **"Factory Default"** • The factory-set copy mode or scanner mode functions are registered. • The copier is initialized at the following timings: ✻ The Power Switch is turned ON. ✻ Control panel is reset. ✻ An Interrupt mode is canceled.
Job Memory Input	To register the copy mode functions being currently set as a job program or check or delete a job program that has previously been registered.	• Up to ten different job programs can be registered. • "Copy Program Recall" as a Utility function is used to call up a program.

Meter Count

Purpose	Setting/Precautions
To check the count of each counter or print a list of counters.	• To print the list, load the 1st Drawer with A4 lengthwise or Letter lengthwise paper. • The copier rejects the print cycle if the drawer is loaded with paper of any other size.

User's Choice: 1

Item	Purpose	Setting/Precautions
Confirmation Beep	To select whether to enable or disable the beep that sounds each time a key on the control panel is pressed.	The default setting is ON. **ON** OFF
Date/Time Set	To set the time-of-day, date, and time zone and start the clock.	• The default setting is 00:00, January 1, 2000. • For the time zone, set the time difference from the Greenwich Mean Time.
Memory Recall	To select whether to permit recalling and copying of image data which has previously been subjected to a copy cycle.	The default setting is Yes. **Yes** No
Auto Reset	To set the time it takes the Auto Reset function to be activated after a copy cycle has been completed or the last key operated. The default settings are established when Auto Reset is activated. It is also used to set the priority display that will be given when Auto Reset is activated.	• Use the 10-Key Pad to enter the Auto Reset time (1 to 9 min.). • The default setting is 1 min. **1 min** (1 to 9) No • The default priority display is Copy.
Low Power	To set the time it takes the copier to enter the Low Power mode after a copy cycle has been completed or the last key operated.	• Use the 10-Key Pad to enter the time (10 to 240 min.). • The default setting is 15 min. **15 min** (10 to 240)
Shut Off	To set the time it takes the copier to enter the Shut Off mode after a copy cycle has been completed or the last key operated. If the system consists of only a copier, all power is shut down, but if a printer controller is mounted on the copier, only the 5-V line turns ON.	• Use the 10-Key Pad to enter the time (15 to 240 min.). • The default setting is 30 min. **30 min** (15 to 240) • The option of "No" becomes available only if "Yes" is selected for "Disable Shut Off Mode" of the "Admin. Mode."
Auto Clear Mode	To select whether to reset the copying mode functions to the default ones when the Plug-In Counter is unplugged, a magnetic card is pulled out, or the access number is entered for the Copy Track function.	The default setting is Yes. **Yes** No

User's Choice: 2

Item	Purpose	Setting/Precautions
Specialty Paper	To set the paper type for the 2nd through 4th Drawers.	The default setting is Standard (plain paper). (Standard, High Quality Paper, Single Sided Only, Specialty)
Priority exit tray	Set the priority exit tray for each of the copier print, PC print, and the Internet Fax print. ✻ When the FS-135 is mounted	The default settings are as follows (as set with the corresponding number shown on the display). • Internet: 3 (3rd Drawer) • Print (PC print): 2 (Elevator Tray) • Copy: 2 (Elevator Tray)
Intelligent Sorting	To select whether to enable or disable the function that automatically switches between Sort and Non-Sort according to the number of originals and the number of copy sets to be made.	• The default setting is Yes. **Yes** No
Criss Cross Mode	To select whether to enable or disable the crisscross sorting function that stacks sorted copy sets in a crisscross manner, i.e., one set stacked lengthwise on top of another set stacked crosswise.	• The default setting is Yes. **Yes** No
Priority Device	To set the print timing for the PC print jobs received.	• The default setting is Copier. **Copier**: After the reception of all data Printer: After the reception of data for each page
ACS Judgement Level Adjust.	To set the criterion level to discriminate between a colored original and a black-and-white original in the Auto Color (ACS) mode.	• Five levels are available to choose from and the default setting is 3. Near Black 1 2 **3** 4 5 Near Full Color
2in1, 4in1, Booklet Copy Zoom	To select, when 2in1, 4in1, or Booklet is selected, whether or not to automatically call up the zoom ratio optimum for the mode.	• The default setting is Presets (call up). **Presets** No Presets
Auto-select Paper for Small	To select whether or not to enable copying when an original, whose size falls outside the detectable range, is loaded in the Auto Paper mode and to select the paper source to be used.	• The default setting is OFF (disable copying). **OFF** ON • The default setting for the paper source is the 1st Drawer.

Item	Purpose	Setting/Precautions
Original 4in1 Copy Order	To select the layout of copy images in the 4in1 mode.	The default setting is as follows: 1 2 3 4
Centering	To select whether to center the image with respect to the paper.	• The default setting is Yes. **Yes** No • Used when the size of the original is smaller than that of the paper selected for use.

Copy Program Recall

Purpose	Setting/Precautions
To call up a program registered through Job Memory Input.	• Select the program number. • If the copier is not equipped with capabilities (e.g., stapling) that were provided when the program was registered, calling up that particular program is disabled.

Unit Life Indicator

Purpose	Setting/Precautions
To check each unit for life.	• The life indicator of each unit is displayed. • Allows a list of counter counts to be printed.

Unit Change

Purpose	Setting/Precautions
To clear the life counters for the Transfer Roller Unit and Paper Dust Remover/Ozone Filter. ✻ When “User” is selected for “Transfer Roller Unit” and “Paper Powder Filter/Ozone Filter” available from “Unit Change” of “System Input” under “Tech. Rep. Mode.” ✻ When the life value is reached. ✻ When the unit is replaced before its life.	• After the Transfer Roller Unit or the Paper Dust Remover/Ozone Filter has been replaced with a new one, enter the Utility mode with the Right Door left open. • The “Unit Change” key will appear on the screen. • Touch the “Unit Change” key and clear the life counter.

Admin. Mode

- Entering the 4-digit administrator number set in the Tech. Rep. mode will allow you to enter the Admin. Mode (default value: 0000).

Admin. set

Item	Purpose	Setting/Precautions
Top Erase	To set the leading edge erase amount of the paper.	• The default setting is 5 mm. **5 mm** 7 mm
Disable Shut Off Mode	To display the option of “No” for the Shut Off setting screen available from User's Choice 1.	• The default setting is No. Yes **No**
Full Bleed paper selection	To establish the full bleed paper size.	• The default setting is 305 x 457 mm or 12 x 18. Metric areas: 311 x 457 mm **305 x 457 mm** Inch areas: 12-1/4 x 18 **12 x 18**
Language Selected	To select the language of the LCD display messages. The counter outputs will be produced in the language selected.	The language options depend on the marketing area selected in “Marketing Area” available from “System Input” under Tech. Rep. Mode.

Copy Track

Item	Purpose	Setting/Precautions
Copy Track Mode	To select whether to enable or disable the Copy Track function.	• The default setting is No. Yes **No** • If the option is changed from "Yes" to "No," the Copy Track data is initialized.
Copy Track Data / Copy + Print	To set the account number and access number for each account, display or clear the counter data, display or change the upper limit value, and print a list of all counter data.	• Entering the access number of each account will allow the Copy Track function to be performed for the account. • Up to 99 accounts can be registered. • The count data can be cleared for each individual account or all at once. • Since it is impossible to display all 99 accounts at once on the screen, they are divided into 20 groups, each consisting of five accounts, and there are ten different one-touch keys displayed. (Example) [1/20]: accounts 001 to 005
Copy Track Data / Copy	To display the copy counter data of each account.	
Copy Track Data / Print	To display the print counter data of each account.	
Copy Track Set	To set the upper limit for the Total Counter, and the limit of each of copy and print outputs in black and color for each account or uniformly for all accounts.	<Upper limit setting> Select either Activate or Inactivate for each of total, color, and black. If Activate is selected, the upper limit value for "Copy Track Data / Copy + Print" becomes effective. Select either Allow or Prohibit for each of total, color, and black. ✻ Color is applicable both to full color and mono color.

Expert Mode

Item	Purpose	Setting/Precautions
Thick Paper and OHP Film Image Density	To fine-adjust density of printed images of each color for thick paper and OHP transparencies.	The fine-adjustment can be made over a range of a total of five steps, two darker levels and two lighter levels around the standard central level. (This setting is not affected by image stabilizer control.)
Color Shift Correction (C) Color Shift Correction (M) Color Shift Correction (Y) Color Shift Correction (Bk)	To make an automatic or manual correction of color shift.	(Automatic correction) • Pressing the Start key will let the copier produce a test pattern according to the current color shift condition. (Manual correction) • Check the test pattern for color shift amount in each of the X, Y, and ? directions, and fine-adjust using the Up/Down key. • Fine-adjust in X and Y directions for color shift of cyan, magenta, and yellow. • For color shift of black, adjust tilt in the black line on the leading edge in ? direction. ✻ Since the test pattern is produced on A3L or 11 × 17, or A4C or 8-1/2 × 11, the press of the Start key will not be accepted unless the paper source is loaded with any of these paper sizes (the Start key lighting up red).

Item	Purpose	Setting/Precautions
Stabilizer	(Stabilizer Mode) The image stabilization sequence is carried without clearing the historical data of image stabilization control. ✻ When PRT Max Density, PRT Highlight, and Background Voltage Margin of Tech. Rep. mode are changed.	When the Start key is pressed, the image stabilization sequence is carried out with reference to the historical data.
	(Reset and Stabilizer Mode) The image stabilization control historical data is cleared and an image stabilization sequence is carried out. ✻ An abnormal value is recorded in the historical data due to a sudden extraneous light or other cause. ✻ If any unusual symptom is noted in gradation and density even after an image stabilization sequence.	When the Start key is pressed, the historical data is cleared and image stabilization sequence is carried out based on the initial values.
PRT Area (Top Margin)	To vary the print start position in the FD direction for each of different paper types in the 1st Drawer.	• Select the appropriate position on the paper type setting dial according to the type of paper loaded in the 1st Drawer and press the Start key. • Check the test pattern and adjust so that the distance between the leading edge of the paper and the edge of the pattern falls within the range of 5 mm ± 0.5 mm. ✻ The adjustment range is -3.0 mm to +3.0 mm (in 0.2-mm increments).
PRT Area (Left Margin)	To vary the print start position in the CD direction for each paper source.	• Select the paper source and press the Start key. • Check the test pattern and adjust so that the void amount on the left edge of the paper falls within the range of 3 ± 0.5 mm. ✻ The adjustment range is -3.0 mm to +3.0 mm (in 0.2-mm increments).

Item	Purpose	Setting/Precautions
PRT Area (Dup. Left Margin)	To vary the print start position in the CD direction for each paper source in the 2-Sided mode.	• Select the paper source and press the Start key. • Check the test pattern and adjust so that the void amount on the left edge of the paper falls within the range of 3 ± 0.5 mm. • Take measurements of the pattern on the backside of the paper. ✻ The adjustment range is -3.0 mm to +3.0 mm (in 0.2-mm increments).
Center Binding Position	To adjust the positions of center staple and folding for the Finisher.	Adjust each of the center staple position and folding position independently of each other. ✻ The adjustment range is -7.0 mm to +7.0 mm (in 1-mm increments).
Monochrome Image density correct (This function is only available on 8020.)	To fine-adjust the image density for black copies.	The fine-adjustment can be made over a range of a total of five steps, two darker levels and two lighter levels around the standard central level. (This setting is not affected by image stabilizer control.)

Gradation Adjust

Purpose	Setting/Precautions
To correct gradation after the setup procedure has been completed or when color reproduction performance is poor.	• Press the Start key to let the copier produce a test pattern. • Place the test pattern on the Original Glass and press the Start key. • Let the copier scan the test pattern and compare the output value with the input value to correct gradation.

3. TECH. REP. MODE

3-1. Tech. Rep. Mode Function Setting Procedure

NOTE

- *Ensure appropriate security for Tech. Rep. mode function setting procedures. They should never be known to any unauthorized person not involved with service jobs.*

<Procedure>

1. Press the Utility key.
2. Press the Meter Count key.
3. Press the following keys in this order.
   Stop → 0 → 0 → Stop → 0 → 1
4. The Tech. Rep. Mode menu will appear.

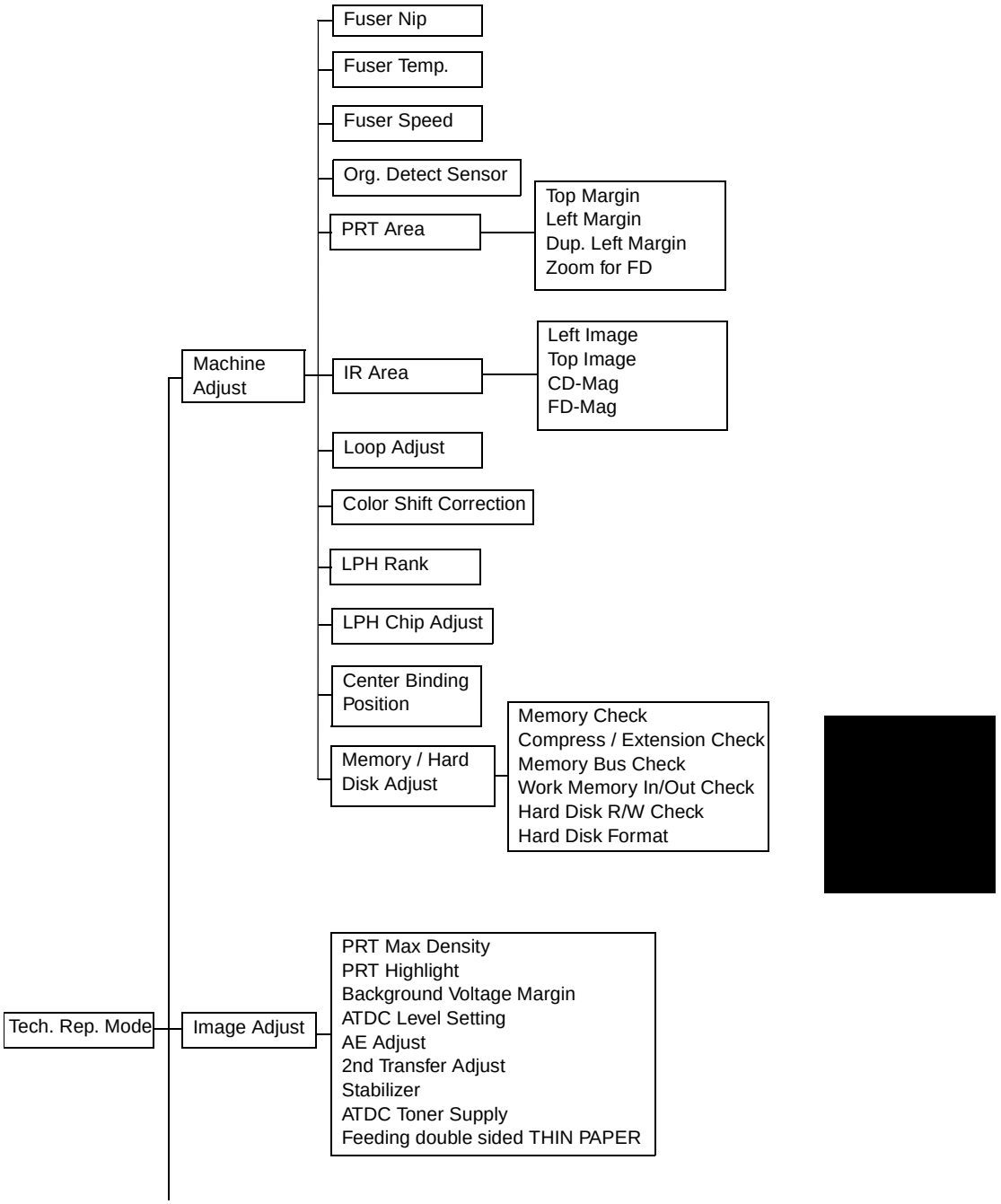
<Exiting>

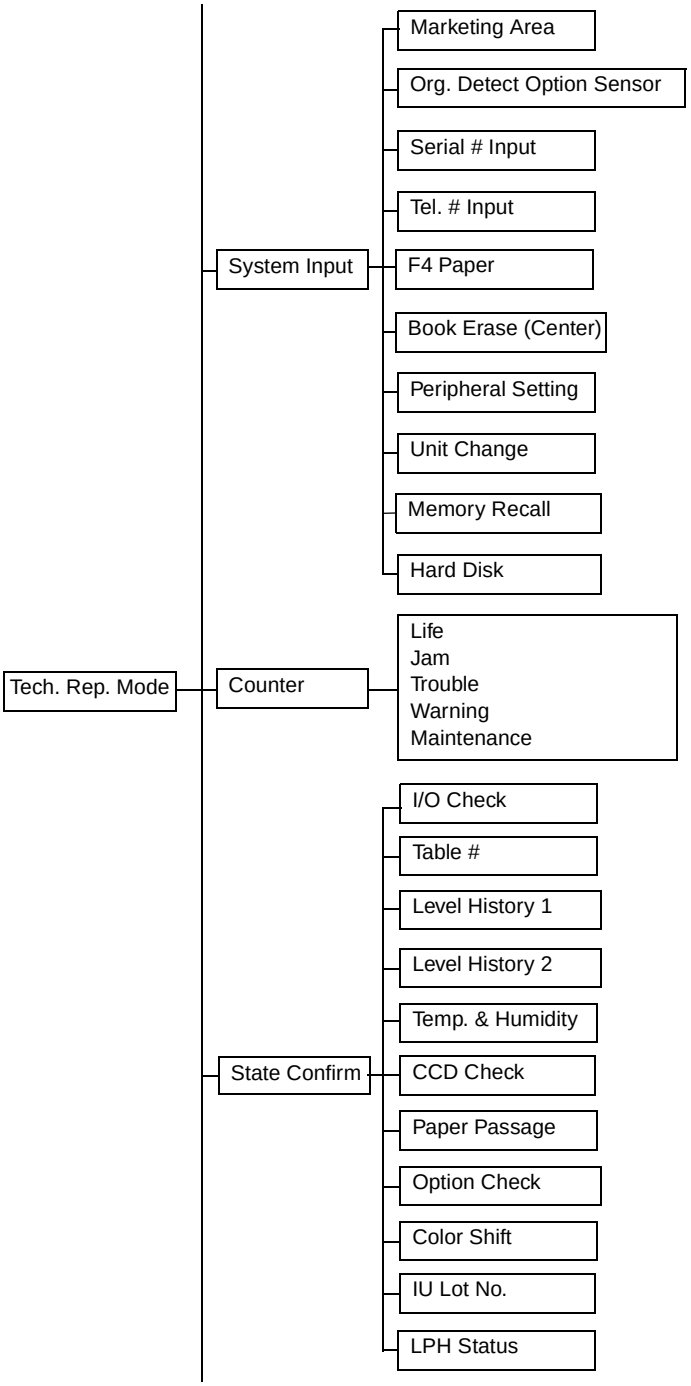
- Touch the “Fin. Time” key.

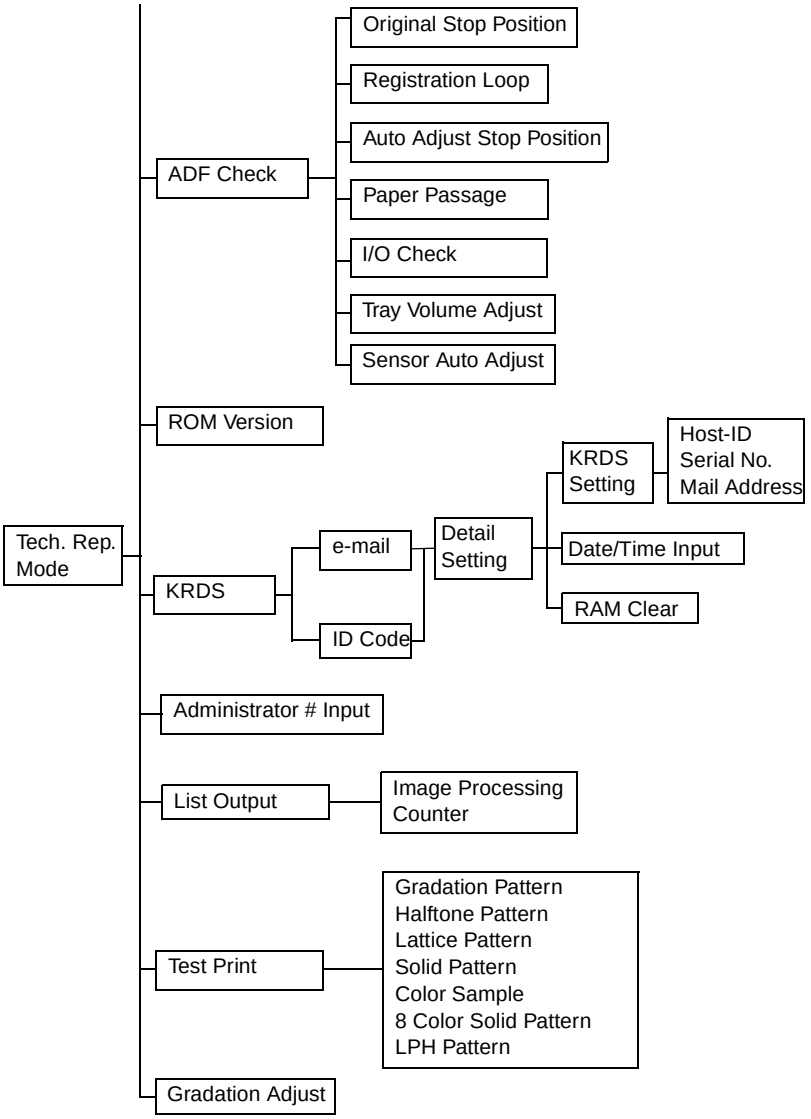
<Changing the Setting Value in Tech. Rep. Mode Functions>

- Use the ID key to change the + sign to - sign, or vice versa.
- Use the Up/Down key to enter or change the setting value.
- Use the 10-Key Pad to enter the setting value. (To change the setting value, first press the Clear key before making an entry.)

3-2. Tech. Rep. Mode Function Tree




Tech. Rep. Mode
System Input
Marketing Area
Org. Detect Option Sensor
Serial # Input
Tel. # Input
F4 Paper
Book Erase (Center)
Peripheral Setting
Unit Change
Memory Recall
Hard Disk
Counter
Life
Jam
Trouble
Warning
Maintenance
State Confirm
I/O Check
Table #
Level History 1
Level History 2
Temp. & Humidity
CCD Check
Paper Passage
Option Check
Color Shift
IU Lot No.
LPH Status


Tech. Rep. Mode
ADF Check
Original Stop Position
Registration Loop
Auto Adjust Stop Position
Paper Passage
I/O Check
Tray Volume Adjust
Sensor Auto Adjust
ROM Version
KRDS
e-mail
ID Code
Detail Setting
KRDS Setting
Host-ID
Serial No.
Mail Address
Date/Time Input
RAM Clear
Administrator # Input
List Output
Image Processing Counter
Test Print
Gradation Pattern
Halftone Pattern
Lattice Pattern
Solid Pattern
Color Sample
8 Color Solid Pattern
LPH Pattern
Gradation Adjust

3-3. Setting in the Tech. Rep. Mode

Machine Adjustt

Item	Purpose	Setting/Precautions
Fuser Nip	To check the Fusing Roller nip width. ✻ When a fusing failure occurs. ✻ When a blurred image or brush effect occurs.	• Press the Start key, which produces a test print. • Check that the fusing roller nip width measures 9 ± 0.5 mm.
Fuser Temp.	To adjust individually the temperature of the Heating Roller and the Fusing Pressure Roller for each type of paper, thereby coping with varying fusing performance under changing environmental conditions. ✻ When a fusing failure occurs. ✻ When an offset occurs.	• Adjust for each paper type. • Increase the set temperature for a fusing failure and decrease the set temperature for an offset.
Fuser Speed	• To adjust the speed of the Fusing Drive Motor so as to match the fusing speed with transport speed. • Make the adjustment for each paper type. ✻ Brush effect ✻ Blurred image	• A brush effect will occur at the trailing edge if the fusing speed is faster than the transport speed. • A blurred image will occur on both edges at around the center if the fusing speed is slower than the transport speed. • 135 mm/s: plain paper • 90 mm/s: plain paper (This function is only available on 8020.) • 60 mm/s: OHP transparencies, thick paper 1, thick paper 2, thick paper 3, envelope • Variable range: -2 % to +2 % (in 0.1 % increments)
Org. Detect Sensor	To automatically adjust the original detection distance for the Original Size Detecting Sensor. ✻ When the sensor is replaced with a new one. ✻ When an optional sensor has been added. ✻ When an erroneous original size detection is made. ✻ When the marketing area setting is changed.	• Lower the Original Cover and press the Start key. This lets the copier automatically adjust the original detection distance for each sensor, showing the result of adjustment of OK or NG. • If the result is NG, perform the trouble-shooting procedure.

Item		Purpose	Setting/Precautions
PRT Area	Top Margin	To vary the print start position in the FD direction for each of different paper types in the 1st Drawer. ✻ When the LPH Unit is replaced with a new one. ✻ When the paper type is changed. ✻ When the image on the copy deviates in the FD direction.	• Select the appropriate position on the paper type setting dial according to the type of paper loaded in the 1st Drawer and press the Start key. • Check the test pattern and adjust so that the distance between the leading edge of the paper and the edge of the pattern falls within the range of 5 or 7 ± 1.0 mm. • Follow the same procedure to adjust for thick paper and OHP transparencies.
	Left Margin	To vary the print start position in the CD direction for each paper source. ✻ When the image on the copy deviates in the CD direction. ✻ When an add-on cassette is mounted or the LPH Unit is replaced with a new one.	• Select the paper source and press the Start key. • Check the test pattern and adjust so that the void amount on the left edge of the paper falls within the range of 3 ± 0.5 mm.
	Dup. Left Margin	To vary the print start position in the CD direction for each paper source in the 2-Sided mode. ✻ When the Duplex Unit is set up. ✻ When the image on the backside of a 2-sided copy deviates in the CD direction.	• Select the paper source and press the Start key. • Check the test pattern and adjust so that the void amount on the left edge of the paper falls within the range of 3 ± 1.0 mm. • Take measurements of the pattern on the backside of the paper.
	Zoom for FD	To synchronize the paper transport speed with the image writing speed. ✻ When the image on the copy is stretched in the FD direction.	• Select the appropriate position on the paper type setting dial according to the type of paper loaded in the 1st Drawer and press the Start key. • Check the test pattern and adjust so that the pattern width falls within the range of 8.13 ± 0.2 mm. • Follow the same procedure to adjust for thick paper and OHP transparencies.

Item		Purpose	Setting/Precautions
IR Area	Left Image	To adjust part-to-part variations in accuracy of IR parts and their mounting accuracy by varying the scan start position in the CD direction. ✻ When the CCD Unit is replaced. ✻ When the Original Glass is replaced.	• With a scale placed in parallel with the Original Width Scale and with the leading edge of the scale pressed up against the Original Length Scale, make a copy of the scale. • Because of a void amount involved with the engine side, the image is automatically slid 50 mm toward the left as it is produced on the copy. • Adjust so that the scan starts with the position of 0 mm (on the graduations) at the leading edge of the scale as checked with the image on the copy.
	Top Image	To adjust variations in mounting accuracy and sensitivity of the Scanner Home Sensor and in mounting accuracy of the Original Width Scale by varying the scan start position in the CD direction. ✻ When the Original Glass or Original Width Scale is replaced.	• With a scale placed in parallel with the Original Length Scale and with the leading edge of the scale pressed up against the Original Width Scale, make a copy of the scale. • Since a void image occurs on the copy corresponding to the 0 mm portion of the scale due to the shadow of the Original Width Scale and Original Glass, a void of 10 mm is forcibly produced of the data. • Adjust so that the scan starts with the position of 10 mm (on the graduations) of the scale as checked with the image on the copy.
	CD-Mag	To correct an error in the zoom ratio in the CD direction occurring due to variations in mounting accuracy of the CCD, lens, and other parts by varying the number of readings in the CD direction. ✻ When the CCD Unit is replaced. ✻ The adjustment of “Zoom for FD” of “PRT Area” must be completed.	• Place a scale on the Original Glass in the CD direction and make a copy of the scale. Measure the length of the scale on the copy to see if it measures 200 mm ± 1. • If the measured value falls outside the specified range, enter the correction value by the following formula: specified value/measured value.

Item		Purpose	Setting/Precautions
IR Area	FD-Mag	To correct an error in the zoom ratio in the FD direction occurring due to part-to-part variations of the pulleys, cables, and other parts by varying the traveling speed of the Scanner. ✻ When the Scanner Assy, Scanner Motor, or Scanner Drive Cables are replaced.	• Place a scale on the Original Glass in the FD direction and make a copy of the scale. Measure the length of the scale on the copy to see if it measures 300 mm ± 1.5. • If the measured value falls outside the specified range, enter the correction value by the following formula: specified value/measured value.
Loop Adjust		To adjust the length of the loop formed in paper before the Synchronizing Rollers. ✻ When a paper skew occurs. ✻ When a paper misfeed occurs.	• Adjust for each of the drawers, Manual Bypass Table, and Duplex Unit. • Adjust also for each of different transport speeds. ✻ 135 mm/s: -6 to +6 ✻ 90 mm/s: -10 to +10 (8020 only) ✻ 60 mm/s: -15 to +15 • Use “Paper Passage” for paper passage check.
Color Shift Correction		To automatically or manually correct color shift, if any occurs. ✻ When color shift occurs.	(Automatic correction) Press the Start key, which lets the copier produce a test pattern that represents the current color shift condition. (Manual correction) • Check the test pattern for color shift amount in each of the X, Y, and ? directions, and fine-adjust using the Up/Down key. • Fine-adjust in X and Y directions for color shift of cyan, magenta, and yellow. • For color shift of black, adjust only in ? direction. • After the adjustments have been made, press the Start key again to check the test pattern. ✻ Since the test pattern is produced on A3L or 11 × 17, or A4C or 8-1/2 × 11, the press of the Start key will not be accepted unless the paper source is loaded with any of these paper sizes (the Start key lighting up red).

Item	Purpose	Setting/Precautions
LPH Rank	Factory adjustment	
LPH Chip Adjust	To correct intensity between LPH chips. ✻ When a white line or black line occurs in the FD direction. ✻ When the LPH Unit is replaced. ✻ When the LPH Assy is replaced.	• Let the copier produce “LPH Pattern” of “Test Print” and correct intensity between chips, in which the FD white line or black line occurs. • Standard: 4 • FD white line: Increase the setting value. • FD black line: Decrease the setting value.
Center Binding Position	To adjust the positions of center staple and folding for the Finisher.	Adjust each of the center staple position and folding position independently of each other.

Item		Purpose	Setting/Precautions
Memory / HardDisk Adjust	Memory Check	To check correspondence of data written to and that read from memory through write/read check. ✻ If the copy image is faulty.	• Pressing the Start key will automatically start a memory check sequence. As soon as the sequence is completed, the result of the check will be displayed. • If the check result is NG, check the memory for proper connection or change it. <Rough Check> A check is made to see if the image data reading and writing are correctly made in the very limited area. <Detail Check> A check is made to see if the image data reading and writing are correctly made at the addresses and buses in all area. The progress of the check sequence is displayed in percentage.
	Compress / Extension Check	To check whether compression and decompression are carried out properly. ✻ If the copy image is faulty.	• Pressing the Start key will automatically start to complete a compression/decompression check sequence. • The check result will be displayed “OK” or “NG”.
	Memory Bus Check	To check to see if image data is correctly transferred from IR to memory, and from memory to printer. ✻ If the copy image is faulty.	• Select either “IR → Memory,” “Memory → PRT,” or both. • Pressing the Start key will start the memory bus check and be terminated automatically. • The check result will be displayed “OK” or “NG”.
	Work Memory In/Out Check	To check to see if input and output of image data of work memory are correctly performed. ✻ If the copy image is faulty.	• Select either “Input Check,” “Output Check,” or both. • Pressing the Start key will start the work memory input/output operation check sequence and be terminated automatically. • The check result will be displayed “OK” or “NG”.

Item		Purpose	Setting/Precautions
Memory / HardDisk Adjust	Hard Disk R/W Check	To check to see if the hard disk is connected properly, and if read/write operation of the hard disk is correctly performed. ✻ When the hard disk is mounted.	• Pressing the Start key will start the hard disk R/W check sequence and be terminated automatically. • The check result will be displayed “OK” or “NG”.
	Hard Disk Format	To format the hard disk. ✻ When the hard disk is mounted. ✻ When the hard disk is to be initialized.	• Pressing the Start key will start the hard disk formatting sequence and be terminated automatically. • The operation sequences from physical format to logical format. • All data in the hard disk will be erased. • The check result will be displayed “OK” or “NG”.

Image Adjust

Item	Purpose	Setting/Precautions
PRT Max Density	To adjust gradation, color, and image density to target reproduction levels by varying the maximum amount of toner sticking to paper through auxiliary manual fine-adjustment of ? of each color after Gradation Adjust. ✻ If Gradation Adjust does not allow the target reproduction level to be achieved.	If the setting value has been changed, be sure to run an image stabilization sequence to make valid the new value.
PRT Highlight	To adjust the highlight portion (fog level) to the target reproduction level by making an auxiliary manual fine-adjustment of ? of each color after Gradation Adjust. ✻ If Gradation Adjust does not allow the target reproduction level to be achieved.	If the setting value has been changed, be sure to run an image stabilization sequence to make valid the new value.
Background Voltage Margin	To make an auxiliary adjustment of the background voltage margin setting value after Gradation Adjust. ✻ When a foggy background occurs.	If the setting value has been changed, be sure to run an image stabilization sequence to make valid the new value.
ATDC Level Setting	To adjust the T/C control level when an abnormal image density occurs as a result of a change in the amount of charge of toner and carrier due to an environmental change. ✻ Use appropriately according to the operating environment of the user.	The central value of 0 corresponds to 5% of T/C (in 0.5% increments).
AE Adjust	To adjust subtle shades of the highlight portion according to the user's need by varying the background level in a direction of less foggy or foggier setting in the Auto Exposure mode. ✻ When a fog occurs, or no image is produced, in the background in the Auto Exposure mode.	• Variable range: 0 to 4 • Less foggy setting: 0, 1 • Foggier setting: 3, 4

Item	Purpose	Setting/Precautions
2nd Transfer Adjust	To fine-adjust the second transfer output (ATVC) for the first side and the second side, respectively. ✻ When an image transfer failure occurs at the trailing edge (of plain paper).	• Variable range: -5 to +5 (-500 V to +500 V) • Less foggy setting: Increase the setting value. • Foggier setting: Decrease the setting value.
Stabilizer	• Stabilizer To run an image stabilization sequence without clearing the historical data of image stabilization control. ✻ When PRT Max Density, PRT Highlight, or Background Voltage Margin has been changed.	Pressing the Start key will let the copier run an image stabilization sequence with reference to the historical data. (This is the same as that which is run when the Power Switch is turned ON except that no color shift adjustment is made.)
	• Reset + Stabilizer To run an image stabilization sequence by initializing the historical data of image stabilization control. ✻ If gradation and max. density are faulty even after a Stabilizer has been run.	Pressing the Start key will let the copier clear the historical data of the image stabilization control and run an image stabilization sequence based on the default settings.
ATDC Toner Supply	To adjust the set T/C level by replenishing an auxiliary supply of toner when a low ID occurs due to a lowered T/C after large numbers of copies have been made of originals having a high image density. ✻ When there is a drop in T/C.	• Pressing the Start key will let the copier detect the current toner density and; if the density is lower than a reference value, a toner replenishing sequence and then a developer agitation sequence are run. • These sequences are repeated up to a maximum of four times until the toner density reaches the reference value. If the toner density is found to be higher than the reference value, only a developer agitation sequence is carried out.
Feeding double sided THIN PAPER	Turn this function ON when thin paper (64 g/m2) is used in an ambience of high temperature and high humidity in the 2-sided mode. It decreases the transfer output value so as to prevent a paper misfeed from occurring.	• The default setting is OFF. ON **OFF**

System Input

Item	Purpose	Setting/Precautions
Marketing Area	To make the various settings (language, paper size, fixed zoom ratios, etc.) according to the applicable marketing area. ✻ Upon setup	Select the applicable marketing area and touch "END" to set the marketing area. J (Japan) **T** (USA) E (Europe, other region)
Org. Detect Option Sensor	To let the copier recognize an optional Original Size Detecting Sensor when one is mounted. ✻ When an optional sensor is mounted.	After the optional Original Size Detecting Sensor has been mounted, select "Set." Set **Unset** After the sensor has been mounted, perform "Org. Detect Sensor" of "Machine Adjust."
Serial # Input	To register the serial numbers of the copier and options. The numbers will be printed on the list output. ✻ Upon setup. ✻ When the IR Unit is replaced.	• The IR and printer have been separately adjusted and it is necessary to load the adjustment and other data of the IR side when the IR is connected to the printer. • The data is loaded at the timing when the Power Switch is turned OFF and ON after the IR serial number has been entered and "END" has been touched on the "Serial # Input" screen.
Tel. # Input	To enter the telephone number of the service contact that will appear on the Touch Panel when a malfunction occurs in the copier. ✻ Upon setup.	Enter the telephone number (19 digits) from the 10-Key Pad. Use the Interrupt key to enter a hyphen "-."
F4 Paper	To set the size for F4 paper. ✻ Upon setup. ✻ When the F4 paper size is changed.	Select the size from among the following four. F: 330.2 mm **F: 330 mm** F: 330.2 mm F: 330 mm C: 203.2 mm **C: 210 mm** C: 215.9 mm C: 220 mm
Book Erase (Center)	To change the center erase width in Book copying. ✻ As required by the user.	The setting range is 2 to 30 mm, with 15 mm being the default.

Item	Purpose	Setting/Precautions
Peripheral Setting	To set the type of the controller. ✻ When setting up the controller	See the Setup Instructions for the Controller.
Unit Change	• To select who is to replace a unit. • When the unit life arrives, the warning display is intended for the specific person who is going to replace the unit. • When “User” is selected: Copying is inhibited. • When “Service” is selected: Life warning. ✻ Upon setup	The following are the default settings: Toner Cartridge: User Waste Toner Bottle: Service Fusing Unit: Service Imaging Unit: Service Transfer Roller Unit: Service Paper Powder Filter/Ozone Filter: Service Punch Scraps Box: Service
Memory Recall	To select whether to display the option of “Memory Recall” for “User's Choice 1” of “Utility.”	The default setting is Enable. **Enable** Disable
Hard Disk	To configure the copier as necessary when a hard disk is mounted.	The default setting is Unset. Set **Unset**

Counter

- To clear the counts of two or more counters within a group or across different groups at once, touch "Counter Reset," select the specific counters to be cleared, and touch "END." Two or more counters can be selected.

Item	Purpose	Setting/Precautions
Life	To check the number of hours or times each of the different maintenance parts has been used or to clear the count of each counter. ✻ When each of the maintenance parts is replaced.	• To clear the count of a counter, select the specific part and press the Clear key. • If a counter is cleared mistakenly, press the Interrupt key, which will undo the clearing operation. • It is not possible to clear the count of the counters for the Fusing Unit and IU, which are provided with a new unit detection function. <1> • Fusing Unit: Number of times a sheet of paper is fed through • Transfer Roller Unit: Number of times a sheet of paper is fed through • Transfer Belt Unit: Number of times a sheet of paper is fed through ✻ The number of copies made (A) is compared with the number of hours through which the unit has been energized translated to the equivalent number of copies made (B) and (A) or (B), whichever reaches the life value, is detected. • Paper Powder Filter/Ozone Filter: Number of times a sheet of paper is fed through • 1st.: Number of sheets of paper fed from the 1st Drawer • 2nd.: Number of sheets of paper fed from the 2nd Drawer • 3rd.: Number of sheets of paper fed from the 3rd Drawer • 4th.: Number of sheets of paper fed from the 4th Drawer <2> • Cyan IU: Period of time over which the Cyan Developing Unit has been used. • Magenta IU: Period of time over which the Magenta Developing Unit has been used. • Yellow IU: Period of time over which the Yellow Developing Unit has been used. • Black IU: Period of time over which the Black Developing Unit has been used. ✻ The period of time over which the PC Drum has been turned (A) is compared with the period of time over which the Developing Roller has been rotated translated to the period of time over which the PC Drum has been turned (B) and (A) or (B), whichever reaches the life value, is detected. • LCT Parts 1: Number of sheets of paper fed from the LCT • LCT Parts 2: Number of sheets of paper fed from the LCT • ADF Feed: Number of sheets of paper fed through the take-up section of the ADF • ADF Rev.: Number of sheets of paper fed through the turnover unit of the ADF • Sorter/Finisher: Number of sheets of paper fed out of the Sorter/Finisher • Staple: Number of stapling sequences performed • Punch: Number of hole-punch sequences performed • Paper Fold: Number of folding sequences performed

Item	Purpose	Setting/Precautions
Jam	To check the number of misfeeds that have occurred at different locations in the copier or to clear the count of each counter.	• To clear the count of a counter, select the specific part and press the Clear key. • If a counter is cleared mistakenly, press the Interrupt key, which will undo the clearing operation.
Trouble	To check the number of malfunctions that have occurred at different locations in the copier or to clear the count of each counter.	• To clear the count of a counter, select the specific part and press the Clear key. • If a counter is cleared mistakenly, press the Interrupt key, which will undo the clearing operation.
Warning	To check the number of warning conditions detected according to the warming type or to clear the count of each counter.	• To clear the count of a counter, select the specific part and press the Clear key. • If a counter is cleared mistakenly, press the Interrupt key, which will undo the clearing operation. • When a warning condition occurs, an oil mark appears at the lower left corner of the Basic screen. • Touching the oil mark will display the warning code screen.
Maintenance	To set a count value for maintenance of any given part. ✻ When any given part is replaced.	<Maint.-Set> • Enter the maintenance counter value from the 10-Key Pad. <Maint.-Count> • Counts up when a sheet of paper is fed through the copier. Pressing the Clear key will clear the count. • If the count is cleared mistakenly, press the Interrupt key, which will undo the clearing operation.

State Confirm

Item	Purpose	Setting/Precautions
I/O Check	To display the states of the input ports of sensors and switches when the copier remains stationary. ✻ Used for troubleshooting when a malfunction or a misfeed occurs.	• The operation of each of the switches and sensors can be checked on a real-time basis. • It can be checked as long as the 5-V power line remains intact even when a cover is open.
Table #	To display the Vg/Vb output values calculated for the image density of the test pattern (amount of toner sticking) produced on the Transfer Belt during an AIDC detection sequence. ✻ Used for troubleshooting of image problems.	• Reference values C, M, Y, Bk ... Vb: around 400 V Vg: around 550 V ✻ The higher the humidity, the lower these values, and the lower the humidity, the higher these values.
Level History 1	To display ATDC (T/C ratio), AIDC/Regist Sensor output values, and fusing temperature. ✻ Used for troubleshooting of image problems.	• AIDC: Shows the AIDC bare surface output reading taken last. • ATDC, fusing temperature: Shows the latest ATDC and fusing temperature data. <"Reading taken last" means> • After the last image stabilization sequence. • When a test print is produced by pressing the Start key while Level History 1 is being displayed.
Level History 2	To display the intensity adjustment value of the AIDC Sensor (Transfer Belt bare surface level) as adjusted through the image stabilization sequence and ATVC value. ✻ Used for troubleshooting of image problems.	• AIDC Sensor: Shows the intensity adjustment value (0 to 255) of the AIDC Sensor. • ATVC (C, M, Y, Bk): Shows the first image transfer ATVC adjustment value (400 V to 3000 V). • ATVC (2nd): Shows the second image transfer ATVC adjustment value (300 V to 5000 V).
Temp. & Humidity	To display the temperature and humidity of a specific location (AIDC Sensor portion) inside the copier and fusing temperature. ✻ Used as reference information when a malfunction occurs.	• Copier interior temperature: 0 to 100 °C in 1 °C increments • Temperature on Fusing Belt side: 0 to 255 °C in 1 °C increments • Temperature on fusing pressure side: 0 to 255 °C in 1 °C increments • Copier interior humidity: 0 to 100% in 1% increments • Absolute humidity: 0 to 100 g/cm3 in 1-g/cm3 increments

Item	Purpose	Setting/Precautions
CCD Check	To display the D/A value of CCD clamp/gain for R, G, and B. ✻ Used for troubleshooting for the CCD Sensor.	Following are the normal ranges to be used as reference: • Clamp: ±100 for R, G, and B • Gain: Clamp value (R and B) ±90 for R and B, Clamp value (G) ±50 for G • The difference between each of RO and RE, GO and GE, and BO and BE should be within 30.
Paper Passage	• To check for paper passage performance of the engine only without involving a print action on paper. • The counters do not count up. ✻ When a paper misfeed or other fault occurs in the paper transport system.	• Select the paper source and press the Start key. • The sequence is halted when the Stop key is pressed or paper runs out.
Option Check	To check the capacity of the add-on memory and mounting of a hard disk. ✻ Used when the 2-sided copying function cannot be selected after an add-on memory has been set up.	When an add-on memory is mounted, the copier automatically recognizes it and displays its capacity.
Color Shift	• To check each of C, M, Y, and Bk for color shift amount. • The data is updated after a color shift correction has been made or color shift adjustment has been completed.	• For each of C, M, Y, and Bk, the color shift amount (in X and Y directions) at two locations (one at the front and the other in the rear) and the difference in color shift amount between the front and rear (X and Y directions) are displayed. • Display unit: dots • The shift amount is displayed with reference to Bk for C, M, and Y, and that for Bk is displayed with reference to an ideal position.
IU Lot No.	• To display the 10-digit lot number for each of C, M, Y, and Bk IUs. • The lot number data is stored in EEPROM of each IU.	The IU lot number is displayed even with the Front Door opened; however, the display is blank, since the copier is unable to read the lot number when the Power Switch is turned ON with the Front Door open. Nonetheless, the lot number will be displayed when the Front Door is closed. (The engine obtains the IU lot number information when the Front Door is closed.)

Item	Purpose	Setting/Precautions
LPH Status	To check various information on each of the C, M, Y, and Bk LPHs.	• LPH Lot No.: LPH lot number (10 digits) • Average Exposure: Average light intensity • X: Print width accuracy • Y: Linearity accuracy • Z: Focus accuracy • FFT Rank: Print width rank • LPH Rank: 0 to 5 ✻ If any one change is made from the default value as a result of LPH chip-to-chip corrections, an asterisk "✻" is displayed beside the color identification (C, M, Y, and Bk) on the screen.

ADF Check

Item	Purpose	Setting/Precautions
Original Stop Position	To make a manual adjustment of the document stop position and scanning position in each of the ADF modes. ✻ When "Auto Adjust Stop Position" is NG.	• 1-Sided Set: Adjust the document stop position for the first side (-7 mm to +7 mm). • 2-Sided Set: Adjust the document stop position for the second side (-7 mm to +7 mm). • Feed Set (Common): Adjust the start position for image scanning (-3 mm to +3 mm).
Registration Loop	To adjust the length of the loop to be formed in paper before the Registration Rollers. ✻ When a document misfeed or skew occurs.	• Enter the loop length from the 10-Key Pad and check for paper passage. • If a misfeed at times occurs due to a worn and slippery Document Take-Up Roller, the loop length may be increased as a temporary measure before the part is replaced with a new one. • Adjustment range: -5 mm to +5 mm
Auto Adjust Stop Position	To make an automatic adjustment of the document stop position and scanning position in each of the ADF modes. ✻ Upon setup of the ADF	• FD 1-Sided: Adjust the document stop position for the first side (-7 mm to +7 mm). • FD 2-Sided: Adjust the document stop position for the second side (-7 mm to +7 mm). • CD: Adjust the start position for image scanning (-3 mm to +3 mm). • The adjustment result is displayed (OK or NG).
Paper Passage	To check for paper passage through the ADF in each of the ADF modes. ✻ Used for checking the document path for any abnormal condition when a document misfeed occurs.	1. Select the mode and load the document in the Document Feed Tray. 2. Press the Start key, which will take up and feed the document through the ADF, one page after another.
I/O Check	To check sensors on the paper path. ✻ When a document misfeed occurs.	Block and unblock the sensor and check to see if the input port signal changes properly.

Item	Purpose	Setting/Precautions
Tray Volume Adjust	To set the maximum and the minimum width for the width sensor. ✻ Upon setup of the ADF	<Max. Width> Slide the Document Edge Guides to their maximum width and press the Start key. <Min. Width> Narrow the Document Edge Guides to their minimum width and press the Start key.
Sensor Auto Adjust	To make an automatic adjustment of the sensor. ✻ When a document misfeed occurs. ✻ When the sensor is replaced.	<Reset And ADF Sensor Auto Adj.> The detection level of the document through path sensor is initialized and then an automatic adjustment is made. <ADF Sensor Auto Adj.> The detection level of the document through path sensor is automatically adjusted.

ROM Version

Purpose	Setting/Precautions
To check the ROM version. ✻ When the firmware is upgraded or PWB is replaced.	<1> MSC/PANEL MSC Subset Message Mecha/PIC IR I.P ADF Sorter/Finisher <2> Controller Controller Board Controller Subset Controller Board Font

KRDS

- Make the settings necessary when a Data Terminal is mounted.

Item	Purpose	Setting/Precautions
KRDS Use/Nonuse	Select use/nonuse of KRDS.	Select use/nonuse of KRDS.
ID Code	To register the Tech. Rep. ID code and perform a maintenance start transmission.	Enter a 7-digit code from the 10-Key Pad (0000001 to 9999999). <Registration> When the ID code is entered, it is registered. <Maint. Start> Touch the ID Code Key.
KRDS Setting	To make the KRDS setting and perform the initial transmission.	<KRDS Setting> Set “Password,” “Serial No.,” and “TEL No.” ✻ When “e-mail” is selected for the ID Setting, TEL No. is the e-mail address. <Initial Transmission> Press the Initial Transmission key to execute the initial transmission to the Center and the copier equipped with the Data Terminal is registered with the Center (only if “Modem” is selected for “System Selection”).
Date/Time Input	To set the date and time-of-day.	Enter the date (month, day, and year) and time-of-day from the 10-Key Pad. Pressing the Set key will start the clock.
Common KRDS	To set tone or pulse and automatic reception.	The default settings are tone and disable automatic reception.
RAM Clear	To clear the data for the Center.	The following types of data are cleared: • ID Code, KRDS Setting, Date/Time Input, and Common KRDS.

Administrator # Input

Purpose	Setting/Precautions
To register the administrator number for entering the Admin. Mode of Utility. ✻ Upon setup	Enter a 4-digit number from the 10-Key Pad.

List Output

Item	Purpose	Setting/Precautions
Image Processing	To produce an output of a list of setting values, adjustment values, Total Counter values, and others. ✻ At the end of setup or when a malfunction occurs.	• Press the Start key, which will let the copier produce the list. • The paper used is A4 lengthwise plain paper and the paper source is the 1st Drawer. • Data printed is in English (alphanumeric characters). • The time-of-day and date will also be printed.
Counter	To produce an output of a list of counts of various counters. ✻ At the end of setup or when a malfunction occurs.	

Test Print

- To check for image on the printer side by letting the copier produce various types of test pattern.
- The copier searches through the paper sources in the order of the 2nd Drawer, 3rd Drawer, 4th Drawer, and 1st Drawer for paper of the maximum size for printing.

Item	Purpose	Setting/Precautions
Gradation Pattern	To produce a gradation pattern. ✻ Used for checking gradation reproducibility.	• Select **SINGLE** (single copy) or MULTI (multi copy). • Select FEET or **HYPER**. • Select **Gradation** or Resolution. • Select the color mode. ✻ Black (4PC): Uses four colors. ✻ Black (1PC): Uses one color of black.
Halftone Pattern	To produce a solid halftone pattern. ✻ Used for checking uneven density and pitch noise.	• Select **SINGLE** (single copy) or MULTI (multi copy). • Select FEET or **HYPER**. • Select **Gradation** or Resolution. • Select the color mode. ✻ Black (4PC): Uses four colors. ✻ Black (1PC): Uses one color of black. • Type the density level (0 to 255).
Lattice Pattern	To produce a lattice pattern. ✻ Used for checking fine line reproducibility and uneven density. A reverse pattern is also used to check for fine line reproducibility of white letters on a solid background.	• Select **SINGLE** (single copy) or MULTI (multi copy). • Select **FEET** or HYPER. • Select the color mode. ✻ Black (4PC): Uses four colors. ✻ Black (1PC): Uses one color of black. • Enter CD width and FD width (0 to 191 dots). • Type the density level (0 to **255**). • Select **Normal** or Reverse.
Solid Pattern	To produce each of the C, M, Y, and Bk solid patterns. ✻ Used for checking reproducibility of image density.	• Select **SINGLE** (single copy) or MULTI (multi copy). • Select FEET or **HYPER**. • Select **Gradation** or Resolution. • Type the density level (0 to **255**).
Color Sample	To produce a color sample. ✻ Used for checking reproducibility of each of the different colors.	Select **SINGLE** (single copy) or MULTI (multi copy).

Item	Purpose	Setting/Precautions
8 Color Solid Pattern	To produce an 8-color solid pattern. ✻ Used for checking color reproducibility and uneven density of each color.	• Select **SINGLE** (single copy) or MULTI (multi copy). • . Select FEET or **HYPER**. • . Select **Gradation** or Resolution. • . Type the density level (0 to **255**).
LPH Pattern	To produce an LPH pattern. ✻ Used for LPH chip-to-chip correction	• Select **SINGLE** (single copy) or MULTI (multi copy). • Select FEET or **HYPER**. • Select **Gradation** or Resolution. • Select to turn ON or **OFF** the Border Line.

Gradation Adjust

Purpose	Setting/Precautions
To correct gradation reproduction after the setup procedure has been completed or when color reproducibility is poor. ✻ The “Adj. Value” for “Max” and “Highlight” shown on the Gradation Adjust screen represents the degree of correction made to produce an output of an ideal image and “Conv. Value” represents the difference from an ideal image density. ✻ The image is more ideal when the “Conv. Value” is closer to 0.	• Press the Start key, which will let the copier produce a test pattern. Now. place the test pattern on the Original Glass. • Place ten blank sheets of A3 paper on the test pattern, lower the Original Cover, and press the Start key. • The copier then starts scanning the test pattern. On completing the scanning sequence, the copier displays the results of Gradation Adjust. • Repeat these steps two more times to let the copier carry out Gradation Adjust sequences a total of three times. • Select Gradation Adjust and check the data for “Conv. Value.” • Complete the adjustments if the values for “Max” fall within the range of 0 +/-100 and for “Highlight” within the range of 0 +/-60. If values fall outside the ranges, carry out Gradation Adjust once again. • If a total of four Gradation Adjust sequences do not bring the values into the specified ranges, check the image. • If the image is faulty, perform troubleshooting procedures for image problems.

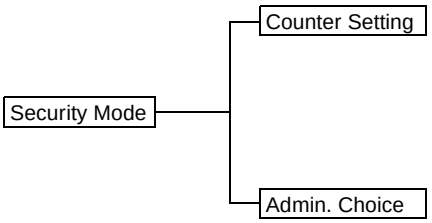
4. SECURITY MODE

4-1. Security Mode Function Setting Procedure

<Procedure>
1. Show the Tech. Rep. mode menu screen.
2. Press the following keys in this order.
   Stop → 9
3. Security Mode menu will appear.

<Exiting>
- Touch the “Fin. Time” key.

4-2. Security Mode Function Tree



4-3. Settings in the Security Mode

Counter Setting

<table>
<tr><th>Purpose</th><th>Setting/Precautions</th></tr>
<tr><td>To set the counting method for the Total Counter and Size Counter.</td><td><Total Counter>
Mode 1: 1 copy per 1 copy cycle (Default: U.S.A. and Canada)
Mode 2: Double count-up according to paper size and copying mode (Default: Europe)

<Size Counter>
• Not counted (Default: U.S.A. and Canada)
• A3 and 11 × 17
• A3, B4, 11 × 17, and Legal
• A3, B4, F4, 11 × 17, 11 × 14, and Legal (Default: Europe)

✻ Count-up Table
<table>
<tr><td>Copying</td><td colspan="4">1-Sided</td><td colspan="4">2-Sided</td></tr>
<tr><td>Size</td><td colspan="2">Sizes other than those specified</td><td colspan="2">Specified sizes</td><td colspan="2">Sizes other than those specified</td><td colspan="2">Specified sizes</td></tr>
<tr><td rowspan="2">Total</td><td colspan="2">Mode</td><td colspan="2">Mode</td><td colspan="2">Mode</td><td colspan="2">Mode</td></tr>
<tr><td>1</td><td>2</td><td>1</td><td>2</td><td>1</td><td>2</td><td>1</td><td>2</td></tr>
<tr><td>Total</td><td>1</td><td>1</td><td>1</td><td>2</td><td>2</td><td>2</td><td>2</td><td>4</td></tr>
<tr><td>Size</td><td>0</td><td>0</td><td>1</td><td>1</td><td>0</td><td>0</td><td>2</td><td>2</td></tr>
<tr><td>2-sided Total</td><td>0</td><td>0</td><td>0</td><td>0</td><td>1</td><td>1</td><td>1</td><td>1</td></tr>
</table>
0: No count; 1: 1 count; 2: 2 counts; 3: 3 counts; 4: 4 counts</td></tr>
</table>

Admin. Choice

Purpose	Setting/Precautions
To set whether or not the Plug-In Counter, Data Controller, and Vendor are installed.	<Key Counter> (Plug-In Counter) • Default setting: Unset • If "Set" is selected, select the counting method applicable when an output is produced in color or mono color. ✻ If "Mode 1" is selected for "Total Counter" Mode 1: 1 count per 1 copy cycle Mode 2: 2 counts per 1 copy cycle Mode 3: 3 counts per 1 copy cycle Mode 4: 4 counts per 1 copy cycle Mode 5: 5 counts per 1 copy cycle ✻ If "Mode 2" is selected for "Total Counter," "Specified sizes" is selected for "Size Counter," and the paper used is the specified size Mode 1: 2 counts per 1 copy cycle Mode 2: 4 counts per 1 copy cycle Mode 3: 6 counts per 1 copy cycle Mode 4: 8 counts per 1 copy cycle Mode 5: 10 counts per 1 copy cycle ✻ If "Mode 2" is selected for "Total Counter," "Sizes other than those specified" is selected for "Size Counter," and the paper used is the specified size or one other than those specified Mode 1: 1 count per 1 copy cycle Mode 2: 2 counts per 1 copy cycle Mode 3: 3 counts per 1 copy cycle Mode 4: 4 counts per 1 copy cycle Mode 5: 5 counts per 1 copy cycle <Admin. Unit> (Data Controller) • Default setting: Unset <Vendor> • Default setting: Unset • If "Set" is selected, select Coin Vendor or Card Keeper.