

## 2. ERROR CODE AND SELF-DIAGNOSTIC MODE

### 2.1 Error Code List

One of the following error codes is displayed at the upper right of the screen while pressing the [CLEAR] button and the digital key [8] simultaneously when the "CLEAR PAPER" or "CALLSERVICE" symbol is blinking.

#### 2.1.1 Jam

Error code	Classification	Contents	Troubleshooting
E010	Paper exit jam	Jam not reaching the exit sensor: The paper which has passed through the fuser unit does not reach the exit sensor.	P. 5-1
E020		Stop jam at the exit sensor: The trailing edge of the paper does not pass the exit sensor after its leading edge has reached this sensor.	P. 5-1
E030	Other paper jam	Power-ON jam: The paper is remaining on the paper transport path when power is turned ON.	P. 5-2
E061		Incorrect paper size setting for upper drawer: The size of paper in the 1st drawer differs from size setting of the equipment.	P. 5-2
E062		Incorrect paper size setting for lower drawer: The size of paper in the 2nd drawer differs from size setting of the equipment.	P. 5-2
E063		Incorrect paper size setting for PFP upper drawer: The size of paper in the 3rd drawer differs from size setting of the equipment.	P. 5-2
E064		Incorrect paper size setting for PFP lower drawer: The size of paper in the 4th drawer differs from size setting of the equipment.	P. 5-2
E065		Incorrect paper size setting for bypass tray: The size of paper in the bypass tray differs from size setting of the equipment.	P. 5-2
E090		HDD abnormality causes jam: Image data to be printed cannot be prepared.	P. 5-3
E110	Paper misfeeding	ADU misfeeding (Paper not reaching the registration sensor): The paper which has passed through ADU does not reach the registration sensor during duplex printing.	P. 5-14
E120		Bypass misfeeding (Paper not reaching the registration sensor): The paper fed from the bypass tray does not reach the registration sensor.	P. 5-15
E130		Upper drawer misfeeding (Paper not reaching the upper drawer feed sensor): The paper fed from the upper drawer does not reach the upper drawer feed sensor.	P. 5-16
E140		Lower drawer misfeeding (Paper not reaching the lower drawer feed sensor): The paper fed from the lower drawer does not reach the lower drawer feed sensor.	P. 5-17
E150		PFP upper drawer misfeeding (Paper not reaching the PFP upper drawer feed sensor): The paper fed from the PFP upper drawer does not reach the PFP upper drawer feed sensor.	P. 5-18

Error code	Classification	Contents	Troubleshooting
E160	Paper misfeeding	PFP lower drawer misfeeding (Paper not reaching the PFP lower drawer feed sensor): The paper fed from the PFP lower drawer does not reach the PFP lower drawer feed sensor.	P. 5-19
E190		LCF misfeeding (Paper not reaching the LCF feed sensor): The paper fed from the LCF does not reach the LCF feed sensor.	P. 5-20
E200	Paper transport jam	Upper drawer transport jam (Paper not reaching the registration sensor): The paper does not reach the registration sensor after it has passed the upper drawer feed sensor.	P. 5-3
E210		Lower drawer transport jam (Paper not reaching the registration sensor): The paper does not reach the registration sensor after it has passed the upper drawer feed sensor.	P. 5-3
E220		Lower drawer transport jam (Paper not reaching the upper drawer feed sensor): The paper does not reach the upper drawer feed sensor after it has passed the lower drawer feed sensor.	P. 5-4
E300		PFP upper drawer transport jam (Paper not reaching the registration sensor): The paper does not reach the registration sensor after it has passed the upper drawer feed sensor.	P. 5-3
E310		PFP upper drawer transport jam (Paper not reaching the upper drawer feed sensor): The paper does not reach the upper drawer feed sensor after it has passed the lower drawer feed sensor.	P. 5-4
E320		PFP upper drawer transport jam (Paper not reaching the lower drawer feed sensor): The paper does not reach the lower drawer feed sensor after it has passed the PFP upper drawer feed sensor.	P. 5-5
E330		PFP lower drawer transport jam (Paper not reaching the registration sensor): The paper does not reach the registration sensor after it has passed the upper drawer feed sensor.	P. 5-3
E340		PFP lower drawer transport jam (Paper not reaching the upper drawer feed sensor): The paper does not reach the upper drawer feed sensor after it has passed the PFP lower drawer feed sensor.	P. 5-4
E350		PFP lower drawer transport jam (Paper not reaching the lower drawer feed sensor): The paper does not reach the lower drawer feed sensor after it has passed the PFP upper drawer feed sensor.	P. 5-5
E360		PFP lower drawer transport jam (Paper not reaching the PFP upper drawer feed sensor): The paper does not reach the PFP upper drawer feed sensor after it has passed the PFP lower drawer feed sensor.	P. 5-6
E3C0		LCF transport jam (Paper not reaching the registration sensor): The paper does not reach the registration sensor after it has passed the upper drawer feed sensor.	P. 5-3
E3D0		LCF transport jam (Paper not reaching the upper drawer feed sensor): The paper does not reach the upper drawer feed sensor after it has passed the lower drawer feed sensor.	P. 5-4

Error code	Classification	Contents	Troubleshooting
E3E0	Paper transport jam	LCF transport jam (Paper not reaching the lower drawer feed sensor): The paper does not reach the lower drawer feed sensor after it has passed the LCF feed sensor.	P. 5-5
E400	Cover open jam	Jam access cover open jam: The jam access cover has opened during printing.	P. 5-21
E410		Front cover open jam: The front cover has opened during printing.	P. 5-21
E420		PFP side cover open jam: The PFP side cover has opened during printing.	P. 5-22
E430		The ADU has opened during printing.	P. 5-22
E440		Side cover open jam: The side cover has opened during printing.	P. 5-23
E450		LCF side cover open jam: The LCF side cover has opened during printing.	P. 5-23
E480		Bridge unit open jam: The bridge unit has opened during printing.	P. 5-24
E490		Job separator cover open jam: The job separator cover has opened during printing.	P. 5-24
E491		Offset tray cover open jam: The offset tray cover has opened during printing.	P. 5-25
E510	Paper transport jam (ADU section)	Stop jam in the ADU: The paper does not reach the ADU exit sensor after it has passed the ADU entrance sensor.	P. 5-7
E520		Jam not reaching the ADU entrance sensor: The paper does not reach the ADU entrance sensor after it is switchbacked in the exit section.	P. 5-8
E550	Other paper jam	Paper remaining jam on the transport path: The paper is remaining on the transport path when printing is finished (caused by a multiple paper feeding).	P. 5-9
E711	RADF jam	Jam not reaching the original length sensor: The original fed from the original feeding tray does not reach the original length sensor.	P. 5-26
E712		Jam not reaching the registration sensor: The original fed from the original feeding tray does not reach the registration sensor.	P. 5-26
E713		Stop jam at the original length sensor: The trailing edge of the original does not pass the original length sensor after its leading edge has reached this sensor.	P. 5-26
E714		Feed signal reception jam: The feed signal is received even no original exists on the original feeding tray.	P. 5-26
E721		Jam not reaching the read sensor: The original does not reach the read sensor after it has passed the registration sensor (when scanning obverse side) or the reverse sensor (when scanning reverse side).	P. 5-27
E722		Jam not reaching the exit sensor (during scanning): The original which passed the read sensor does not reach the exit sensor when it is transported from the scanning section to exit section.	P. 5-27
E723		Jam not reaching the reverse sensor (during scanning): The original which passed the read sensor does not reach the reverse sensor when it is transported from the scanning section to reverse section.	P. 5-27

Error code	Classification	Contents	Troubleshooting
E724	RADF jam	Stop jam at the registration sensor: The trailing edge of the original does not pass the registration sensor after its leading edge has reached this sensor.	P. 5-28
E725		Stop jam at the read sensor: The trailing edge of the original does not pass the read sensor after its leading edge has reached this sensor.	P. 5-28
E726		Transport/exit signal reception jam: RADF receives the transport/exit reception signal from the equipment when no original is at the exposure waiting position.	P. 5-28
E731		Stop jam at the exit sensor: The trailing edge of the original does not pass the exit sensor after its leading edge has reached this sensor.	P. 5-29
E741		Stop jam at the reverse sensor: The trailing edge of the original does not pass the reversal sensor after its leading edge has reached this sensor.	P. 5-29
E742		Jam not reaching the reverse sensor (during reverse feeding): The leading edge of the original does not reach the reverse sensor when original is fed from the reverse section.	P. 5-30
E743		Jam not reaching the exit sensor (during reverse feeding): The original does not reach the exit sensor after it has passed the reverse sensor when the original is exited from the reverse section.	P. 5-30
E860		Jam access cover open: The jam access cover has opened during RADF operation.	P. 5-30
E870		RADF open jam: RADF has opened during RADF operation.	P. 5-31
E910	Finisher jam (Bridge unit)	Jam at the bridge unit transport sensor-1: The paper does not reach the bridge unit transport sensor-1 after it has passed the exit sensor.	P. 5-32
E920		Stop jam at the bridge unit transport sensor-1: The trailing edge of the paper does not pass the bridge unit transport sensor-1 after its leading edge has reached the sensor.	P. 5-32
E930		Jam at the bridge unit transport sensor-2: The trailing edge of the paper does not reach the bridge unit transport sensor-2 after its leading edge has reached the bridge unit transport sensor-1.	P. 5-32
E940		Stop jam at the bridge unit transport sensor-2: The trailing edge of the paper does not reach the bridge unit transport sensor-2 after its leading edge has reached the bridge unit transport sensor-2.	P. 5-32
E950	Job separator jam	Jam not reaching the job separator transport switch: The paper has passed through the exit sensor does not reach the job separator transport switch.	P. 5-10
E951		Stop jam at the job separator transport switch: The trailing edge of the paper does not pass the job separator transport switch.	P. 5-10
E960	Offset tray jam	Jam not reaching the offset tray transport switch: The paper has passed through the exit sensor does not reach the offset tray transport switch.	P. 5-10
E961		Stop jam at the offset tray transport switch: The trailing edge of the paper does not pass the offset tray transport switch.	P. 5-10



Error code	Classification	Contents	Troubleshooting
E9F0	Finisher jam (Puncher unit)	Punching jam: Punching is not performed properly. [MJ-1023/1024 (when MJ-6004 is installed)] [MJ-1101 (when MJ-6101 is installed)]	P. 5-50
EA10	Finisher jam (Finisher unit)	Paper transport delay jam: The paper which has passed the bridge unit does not reach the inlet sensor. [MJ-1022/1023/1024/1101]	P. 5-33
EA20		Paper transport stop jam: (1) The paper does not pass through the inlet sensor. [MJ-1022/1023/1024] (2) The paper has passed through the inlet sensor but does not reach or pass the feed path sensor or processing tray sensor. [MJ-1023/1024] (3) The paper which has passed through the inlet sensor does not reach the transport sensor. [MJ-1101]	P. 5-35
EA21		Paper size error jam: Paper does not reach the sensor because the paper is shorter than spec. [MJ-1101]	P. 5-36
EA30		Power-ON jam: (1) Paper exists at the inlet sensor when power is turned ON. [MJ-1022/1023/1024] (2) Paper exists at the feed path sensor or processing tray sensor when power is turned ON. [MJ-1023/1024]	P. 5-37
EA31		Transport path paper remaining jam: The paper which has passed through the inlet sensor does not reach the transport sensor. [MJ-1101]	P. 5-38
EA32		Exit paper remaining jam: The paper is remaining on the finishing tray when the power is turned ON. [MJ-1101]	P. 5-38
EA40		Door open jam: (1) The finisher has been released from the equipment during printing. [MJ-1022] (2) The upper/front cover of the finisher unit or the upper/front door of the puncher unit has opened during printing. [MJ-1023/1024] (3) The front cover or stationary tray cover is opened during paper transport. [MJ-1101]	P. 5-39
EA50		Stapling jam: Stapling is not performed properly. [MJ-1022/1023/1024/1101]	P. 5-42
EA60		Early arrival jam: The inlet sensor detects the paper earlier than a specified timing. [MJ-1022/1023/1024/1101]	P. 5-44
EA70		Stack delivery jam: It cannot deliver the stack of paper on the intermediary process tray to the stack tray. [MJ-1022]	P. 5-45
		Stack exit belt home position error: The stack exit belt is not at the home position. [MJ-1101]	
EA80	Finisher jam (Saddle stitcher unit)	Stapling jam: Stapling is not performed properly. [MJ-1024]	P. 5-47
EA90		Door open jam: The delivery cover or the inlet cover has opened during printing [MJ-1024].	P. 5-47
EAA0		Power-ON jam: Paper exists at No.1 paper sensor, No. 2 paper sensor, No.3 paper sensor, vertical path paper sensor or delivery sensor when power is turned ON. [MJ-1024]	P. 5-48

Error code	Classification	Contents	Troubleshooting
EAB0	Finisher jam (Saddle stitcher unit)	Transport stop jam: The paper which passed through the inlet sensor does not reach or pass No.1 paper sensor, No. 2 paper sensor, No.3 paper sensor or delivery sensor. [MJ-1024]	P. 5-48
EAC0		Transport delay jam: The paper which has reached the inlet sensor does not pass through the inlet sensor. [MJ-1024]	P. 5-49
EAD0	Other paper jam	Print end command time-out jam: The printing has not finished normally because of the communication error between the SYS board and LGC board at the end of printing.	P. 5-51
EAE0	Finisher jam	Receiving time time-out jam: The printing has been interrupted because of the communication error between the equipment and finisher when the paper is transported from the equipment to the finisher.	P. 5-51
EAFO	Finisher jam (Finisher unit)	Stack return jam: It cannot load the paper which passed through the delivery roller on the intermediary process tray. [MJ-1022]	P. 5-46
EB30	Finisher jam	Ready time time-out jam: The equipment judges that the paper transport to the finisher is disabled because of the communication error between the equipment and finisher at the start of printing.	P. 5-51
EB50	Paper transport jam	Paper remaining on the transport path: The multiple feeding of preceding paper caused the misfeeding of upcoming paper.	P. 5-11
EB60		Paper remaining on the transport path: The multiple feeding of preceding paper caused the misfeeding of upcoming paper (redetection after no jam is detected at [EB50]).	P. 5-13
ED10	Finisher (Puncher unit)	Skew adjustment motor (M1) home position detection abnormality: The Skew adjustment motor is not at the home position. [MJ-1101 (when MJ-6101 is installed)]	P. 5-52
ED11		Sideways adjustment motor (M2) home position detection error: The Sideways adjustment motor is not at the home position. [MJ-1101 (when MJ-6101 is installed)]	P. 5-52
ED12	Finisher	Shutter home position error: The shutter is not at the home position. [MJ-1101]	P. 5-53
ED13		Front alignment plate home position error: The front alignment plate is not at the home position. [MJ-1101]	P. 5-53
ED14		Rear alignment plate home position error: The rear alignment plate is not at the home position. [MJ-1101]	P. 5-54
ED15		Paddle home position error: The paddle is not at the home position. [MJ-1101]	P. 5-54
ED16		Buffer tray home position error: The buffer tray is not at the home position. [MJ-1101]	P. 5-55

## 2.1.2 Service call

Error code	Classification	Contents	Troubleshooting
C010	Drive system related service call	Main motor abnormality: The main motor is not rotating normally.	P. 5-56
C040	Paper feeding system related service call	PFP motor abnormality: The PFP motor is not rotating normally. (the case that paper can be fed from any drawer except the PFP)	P. 5-57
C130		Upper drawer tray abnormality: The upper drawer tray motor is not rotating or the upper drawer tray is not moving normally. (the case that paper can be fed from any drawer except the upper drawer)	P. 5-58
C140		Lower drawer tray abnormality: The lower drawer tray motor is not rotating or the lower drawer tray is not moving normally. (the case that paper can be fed from any drawer except the lower drawer)	P. 5-58
C150		PFP upper drawer tray abnormality: The PFP upper drawer tray motor is not rotating or the PFP upper drawer tray is not moving normally. (the case that paper can be fed from any drawer except the PFP upper drawer)	P. 5-59
C160		PFP lower drawer tray abnormality: The PFP lower drawer tray motor is not rotating or the PFP lower drawer tray is not moving normally. (the case that paper can be fed from any drawer except the PFP lower drawer)	P. 5-59
C180		LCF tray motor abnormality: The LCF tray motor is not rotating or the LCF tray is not moving normally. (the case that paper can be fed from any drawer except the LCF)	P. 5-60
C1A0		LCF end fence motor abnormality: The LCF end fence motor is not rotating or the LCF end fence is not moving normally. (the case that paper can be fed from any drawer except the LCF)	P. 5-61
C1B0		LCF transport motor abnormality: The LCF transport motor is not rotating normally. (the case that paper can be fed from any drawer except the LCF)	P. 5-62
C260	Scanning system related service call	Peak detection error: Lighting of the exposure lamp (white reference) is not detected when power is turned ON.	P. 5-63
C270		Carriage home position sensor not turning OFF within a specified period of time: The carriage does not shift from its home position in a specified period of time.	P. 5-64
C280		Carriage home position sensor not turning ON within a specified period of time: The carriage does not reach to its home position in a specified period of time.	P. 5-64
C410	Fuser unit related service call	Thermistor or heater abnormality at power-ON: Abnormality of service call the thermistor is detected when power is turned ON or the temperature of the fuser roller does not rise in a specified period of time after power is turned ON.	P. 5-65
C440		Heater abnormality after abnormality judgment: The temperature of the fuser roller has exceeded the range of control (in this case, the main switch turns OFF automatically) or does not even reach the range.	P. 5-66

Error code	Classification	Contents	Troubleshooting
C450	Fuser unit related service call	Thermistor abnormality during printing: Abnormality of the thermistor is detected during printing.	P. 5-66
C470		IH initialization or IH power voltage abnormality: The AC input is not applied to the IH control circuit normally, or the input voltage is too high/low.	P. 5-67
C480		Overheating of IGBT: The temperature of the IGBT rises abnormally.	P. 5-68
C490		IH control circuit or IH coil abnormality: Abnormality is detected in IH control circuit or IH coil is broken/shorted.	P. 5-68
C550 (C780)	Optional communication related service call	RADF I/F error: Communication error has occurred between the RADF and the scanner.	P. 5-69
C570		Communication error between Engine-CPU and IPC board	P. 5-69
C580		Communication error between IPC board and finisher	P. 5-69
C730	RADF related service call	EEPROM initialization error: EEPROM is not initialized normally when performing the code 05-356.	P. 5-70
C740		Reverse sensor adjustment error	P. 5-70
C810		Fan motor abnormality: The fan motor is not rotating normally.	P. 5-70
C820		Read sensor adjustment error: The read sensor cannot be adjusted normally when performing the code 05-356.	P. 5-70
C830		Original length sensor adjustment error: The original length sensor cannot be adjusted normally when performing the code 05-356.	P. 5-70
C940	Circuit related service call	Engine-CPU abnormality	P. 5-91
C970	Process related service call	High-voltage transformer abnormality: Leakage of the main charger is detected.	P. 5-91
CA10	Laser optical unit related service call	Polygonal motor abnormality: The polygonal motor is not rotating normally.	P. 5-71
CA20		H-Sync detection error: H-Sync detection PC board cannot detect laser beams.	P. 5-71
CB00	Finisher related service call	Finisher not connected: The finisher is not connected.	-
CB01		Finisher communication error: Communication error has occurred between the equipment and finisher.	-
CB10		Entrance motor abnormality: The entrance motor is not rotating normally. [MJ-1101]	P. 5-72
CB11		Buffer tray guide motor abnormality: The buffer tray guide motor is not rotating or the buffer tray guide is not moving normally. [MJ-1101]	P. 5-72
CB12		Buffer roller drive motor abnormality: The buffer roller drive motor is not rotating or the buffer roller is not moving normally. [MJ-1101]	P. 5-72

Error code	Classification	Contents	Troubleshooting
CB20	Finisher related service call	Delivery motor abnormality: Delivery motor or delivery roller is not rotating normally. [MJ-1022]	P. 5-72
CB30		Tray 1/Tray 2 shift motor abnormality: Tray 1/Tray 2 shift motor is not rotating or delivery tray is not moving normally. [MJ-1023/1024]	P. 5-73
		Movable tray shift motor abnormality: The movable tray shift motor is not rotating or the movable tray is not moving normally. [MJ-1101]	
CB31		Movable tray paper-full detection error: The actuator of the movable tray paper-full detection sensor does not move smoothly. [MJ-1101]	P. 5-74
CB40		Rear aligning plate motor abnormality: Rear aligning plate motor is not rotating or aligning plate is not moving normally. [MJ-1023/1024]	P. 5-74
		Front alignment motor abnormality: The front alignment motor is not rotating or the front alignment plate is not moving normally. [MJ-1101]	
CB50		Staple motor abnormality: Staple motor is not rotating or stapler is not moving normally. [MJ-1022/1023/1024]	P. 5-75
		Stapler home position error: The stapler home position sensor does not work. [MJ-1101]	
CB51		Stapler shift home position error: The stapler is not at the home position. [MJ-1101]	P. 5-75
CB60		Stapler unit shift motor abnormality: The stapler unit shift motor is not rotating or the stapler is not moving normally. [MJ-1023/1024/1101]	P. 5-76
CB80		Backup RAM data abnormality: (1) Abnormality of checksum value on finisher controller board is detected when the power is turned on. [MJ-1023/1024] (2) Abnormality of checksum value on punch driver board is detected when the power is turned on. [MJ-1023/1024 (when MJ-6004 is installed)] RAM abnormality: Abnormality of checksum value on finisher controller PC board is detected when the power is turned on. [MJ-1101]	P. 5-76
CB81		Flash ROM abnormality: Abnormality of checksum value on finisher controller PC board is detected when the power is turned on. [MJ-1101]	P. 5-77
CB90		Paper pushing plate motor abnormality: Paper pushing plate motor is not rotating or paper pushing plate is not moving normally. [MJ-1024]	P. 5-77
CBA0		Stitch motor (front) abnormality: Stitch motor (front) is not rotating or rotary cam is not moving normally. [MJ-1024]	P. 5-77
CBB0		Stitch motor (rear) abnormality: Stitch motor (rear) is not rotating or rotary cam is not moving normally. [MJ-1024]	P. 5-77
CBC0		Alignment motor abnormality: Alignment motor is not rotating or aligning plate is not moving normally. [MJ-1024]	P. 5-77
CBD0		Guide motor abnormality: Guide motor is not rotating or guide is not moving normally. [MJ-1024]	P. 5-78
CBE0		Paper folding motor abnormality: Paper folding motor or paper folding roller is not rotating normally. [MJ-1024]	P. 5-78

Error code	Classification	Contents	Troubleshooting
CBF0	Finisher related service call	Paper positioning plate motor abnormality: Paper positioning plate motor is not rotating or paper positioning plate is not moving normally. [MJ-1024]	P. 5-78
CC00		Sensor connector abnormality: Connector of guide home position sensor, paper pushing plate home position sensor or paper pushing plate top position sensor is disconnected. [MJ- 1024]	P. 5-79
CC10		Micro switch abnormality: With all covers closed, inlet door switch, delivery door switch or front cover switch is open. [MJ-1024]	P. 5-79
CC20		Communication error between finisher and saddle stitcher: Communication error between finisher controller board and saddle stitcher controller board [MJ-1023/1024]	P. 5-79
CC30		Stack processing motor abnormality: The stack processing motor is not rotating or the stack delivery belt is not moving normally. [MJ-1022]	P. 5-80
		Stack transport motor abnormality: The stack transport motor is not rotating or the stack transport belt is not moving normally. [MJ-1101]	
CC31		Transport motor abnormality: The transport motor is not rotating or the stack transport roller -1 and -2 is not rotating normally. [MJ-1101]	P. 5-81
CC40		Swing motor abnormality: Swing motor is not rotating or swing unit is not moving normally. [MJ-1023/1024]	P. 5-81
CC41		Paper holder cam home position abnormality: The paper holder cam is not at the home position. [MJ-1101]	P. 5-82
CC50		Horizontal registration motor abnormality: Horizontal registration motor is not rotating or puncher is not shifting normally. [MJ-1023/1024 (when MJ-6004 is installed)]	P. 5-82
CC51		Sideways adjustment motor (M2) abnormality: Sideways adjustment motor is not rotating or puncher is not shifting normally. [MJ-1101 (when MJ-6101 is installed)]	P. 5-82
CC52		Skew adjustment motor (M1) abnormality: Skew adjustment motor is not rotating or puncher is not shifting normally. [MJ-1101 (when MJ-6101 is installed)]	P. 5-83
CC60		Punch motor abnormality: Punch motor is not rotating or puncher is not shifting normally. [MJ-1023/1024 (when MJ-6004 is installed)]	P. 5-83
CC61		Punch motor (M3) home position detection error: Punch motor is not rotating or puncher is not shifting normally. [MJ-1101 (when MJ-6101 is installed)]	P. 5-84
CC71		Punch ROM checksum error: Abnormality of checksum value on Hole punch controller PC board is detected when the power is turned on. [MJ-1101 (when MJ-6101 is installed)]	P. 5-84
CC72		Punch RAM read/write error: Abnormality of checksum value on Hole punch controller PC board is detected when the power is turned on. [MJ-1101 (when MJ-6101 is installed)]	P. 5-84

Error code	Classification	Contents	Troubleshooting
CC80	Finisher related service call	Front alignment motor abnormality: Front alignment motor is not rotating or front aligning plate is not moving normally. [MJ-1022]	P. 5-85
		Rear alignment motor abnormality: The rear alignment motor is not rotating or the rear alignment plate is not moving normally. [MJ-1101]	
CC90		Upper stack tray lift motor abnormality: The upper stack tray lift motor is not rotating or the upper stack tray is not moving normally. [MJ-1022]	P. 5-86
CCA0		Lower stack tray lift motor abnormality: The lower stack tray lift motor is not rotating or the lower stack tray is not moving normally. [MJ-1022]	P. 5-87
CCB0		Rear jogging motor abnormality: The rear jogging motor is not rotating or the rear jogging plate is not moving normally. [MJ-1022]	P. 5-87
CCD0		Stack ejection motor abnormality: Stack ejection motor or stack ejection roller is not rotating normally. [MJ-1023/1024]	P. 5-88
CCE0		Paper trailing edge assist motor abnormality: Paper trailing edge assist motor is not rotating or paper trailing edge assist is not moving normally. [MJ-1023/1024]	P. 5-88
CCF0		Gear changing motor abnormality: Gear changing motor is not rotating normally. [MJ-1023/1024]	P. 5-88
CDE0		Paddle motor abnormality: The paddle motor is not rotating or the paddle is not rotating normally. [MJ-1101]	P. 5-89
CDF0	Offset tray related service call	Initialization error of the offset tray: The home position of the separator cannot be detected when the power is turned ON.	P. 5-91
CE00	Finisher related service call	Communication error between finisher unit and puncher unit: Communication error between finisher controller PC board and punch controller PC board [MJ-1023/1024 (when MJ-6004 is installed)] [MJ-1101 (when MJ-6101 is installed)]	P. 5-89
CE50	Image control related service call	Temperature/humidity sensor abnormality: The output value of this sensor is out of a specified range.	P. 5-109
CF10	Finisher related service call	Undefined error code processing: If the engine of the equipment judges that a code (command) other than the defined error codes is sent from the finisher, it regards this as a CF10 error. [MJ-1022/1023/1024] Communication module SRAM writing failure. [MJ-1101]	P. 5-90
F070	Communication related service call	Communication error between System-CPU and Engine-CPU	P. 5-69
F090	Other service call	SRAM abnormality on the SYS board	P. 5-91
F091		NVRAM abnormality on the SYS board	P. 5-92
F092		SRAM and NVRAM abnormality on the SYS board	P. 5-92
F100		HDD format error: HDD cannot be initialized normally.	P. 5-92
F101		HDD unmounted: Connection of HDD cannot be detected.	P. 5-93
F102		HDD start error: HDD cannot become 'Ready' state.	P. 5-93
F103		HDD transfer time-out: Reading/writing cannot be performed in the specified period of time.	P. 5-93

Error code	Classification	Contents	Troubleshooting
F104	Other service call	HDD data error: Abnormality is detected in the data of HDD.	P. 5-93
F105		HDD other error	P. 5-93
F106		Point and Print partition damage	P. 5-93
F107		/SHR partition damage	P. 5-93
F108		/SHA partition damage	P. 5-93
F110	Communication related service call	Communication error between System-CPU and Scanner-CPU	P. 5-69
F111	Other service call	Scanner response abnormality	P. 5-69
F120		Database abnormality: Database is not operating normally.	P. 5-93
F130		Invalid MAC address	P. 5-93
F200		Data overwrite Kit (GP-1050/1060) is taken off	P. 5-93



## 2.2 Self-diagnosis Modes

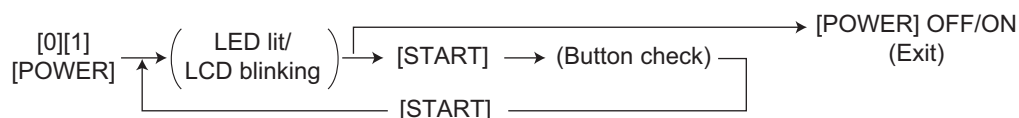
Mode	For start	Contents	For exit	Display
Control panel check mode	[0]+[1]+ [POWER]	All LEDs on the control panel are lit, and all the LCD pixels blink.	[POWER] OFF/ON	-
Test mode	[0]+[3]+ [POWER]	Checks the status of input/output signals.	[POWER] OFF/ON	100% C A4 TEST MODE
Test print mode	[0]+[4]+ [POWER]	Outputs the test patterns.	[POWER] OFF/ON	100% P A4 TEST PRINT
Adjustment mode	[0]+[5]+ [POWER]	Adjusts various items.	[POWER] OFF/ON	100% A A4 TEST MODE
Setting mode	[0]+[8]+ [POWER]	Sets various items.	[POWER] OFF/ON	100% D TEST MODE
List print mode	[9]+[START]+ [POWER]	Prints out the data lists of the codes 05 and 08, PM support mode and pixel counter.	[POWER] OFF/ON	100% UA A4 LIST PRINT
PM support mode	[6]+[START]+ [POWER]	Clears each counter.	[POWER] OFF/ON	100% K TEST MODE
Firmware update mode	[8]+[9]+ [POWER]	Performs updating of the system firmware.	[POWER] OFF/ON	-

### Notes:

1. To enter the desired mode, turn ON the power while two digital keys designated to each mode (e.g. [0] and [5]) are pressed simultaneously.
2. When the optional FAX unit is installed, Faxes received automatically during the self-diagnosis mode may not be printed out. Be sure to disconnect the modular code from the line connectors (LINE1, LINE2) of the equipment before starting the self-diagnosis mode. Also, be sure to finish the self-diagnosis mode by turning the power OFF and back ON before connecting the modular code.

### <Operation procedure>

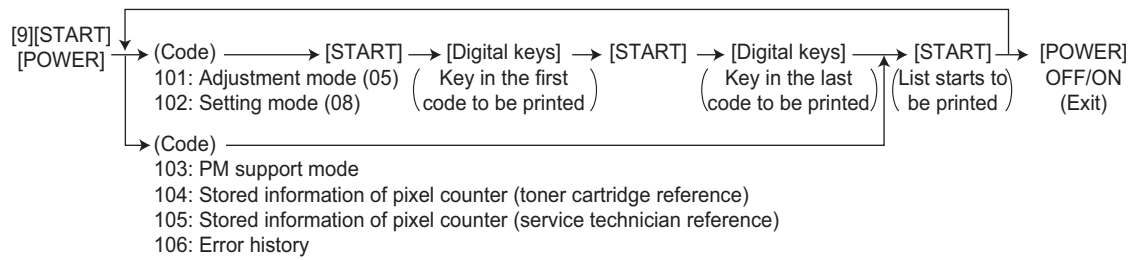
- Control panel check mode (01):



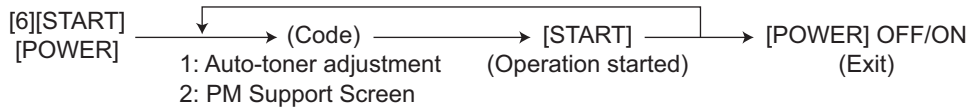
### Notes:

1. A mode can be canceled by [POWER] OFF/ON when the LED is lit and the LCD is blinking.
  2. Button Check
    - Buttons with LED (Press to turn OFF the LED.)
    - Buttons without LED (Press to display the message on the control panel.)
    - Button on touch panel (Press to display the screen on the control panel at power-ON.)
- Test mode (03): Refer to
    - ☞ P. 2-27 "2.2.1 Input check (Test mode 03) (e-STUDIO350/450)"/
    - ☞ P. 2-34 "2.2.2 Input check (Test mode 03) (e-STUDIO352/353/452/453)" and
    - ☞ P. 2-42 "2.2.3 Output check (test mode 03)".
  - Test print mode (04): Refer to ☞ P. 2-45 "2.2.4 Test print mode (test mode 04)"
  - Adjustment mode (05): Refer to
    - ☞ P. 2-46 "2.2.5 Adjustment mode (05) (e-STUDIO350/450)"/
    - ☞ P. 2-64 "2.2.6 Adjustment mode (05) (e-STUDIO352/353/452/453)"

- Setting mode (08): Refer to  
 P. 2-82 "2.2.7 Setting mode (08) (e-STUDIO350/450)"  
 P. 2-144 "2.2.8 Setting mode (08) (e-STUDIO352/353/452/453)"
- List print mode (9S): The procedure varies depending on the code.



- PM support mode (6S):



- Firmware update mode (89): Refer to "6.FIRMWARE UPDATING"

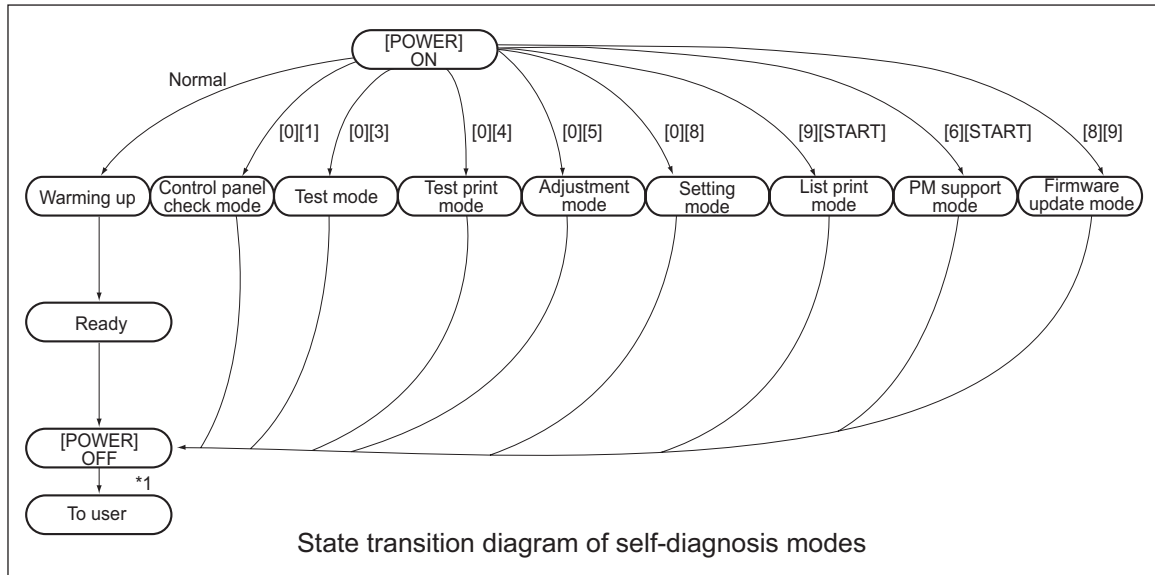


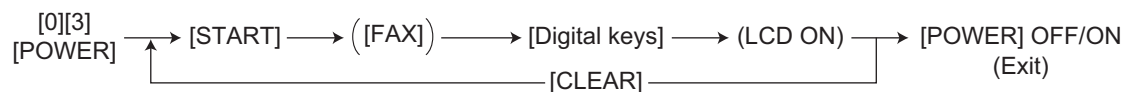
Fig. 2-1

\*1 Turn OFF the power after using the self-diagnosis modes, and leave the equipment to the user.

## 2.2.1 Input check (Test mode 03) (e-STUDIO350/450)

The status of each input signal can be checked by pressing the [FAX] button, and the digital keys in the test mode (03).

<Operation procedure>



**Note:**

Initialization is performed before the equipment enters the test mode.

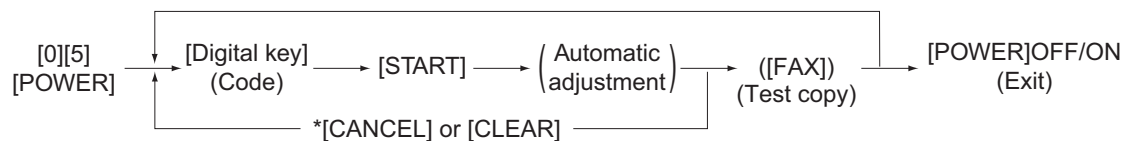






Fig. 2-2 Example of display during input check

Items to be checked and the condition of the equipment when the buttons [A] to [H] are highlighted are listed in the following pages.

[FAX] button: OFF ([FAX] LED: OFF)

Digital key	Button	Items to check	Contents	
			Highlighted display e.g. 	Normal display e.g. 
[1]	A	-	-	-
	B	LCF connection	Not connected	Connected
	C	Bypass unit connection	Not connected	Connected
	D	Bypass paper sensor	No paper	Paper present
	E	ADU connection	Not connected	Connected
	F	ADU opening/closing switch	ADU opened	ADU closed
	G	ADU exit sensor	Paper present	No paper
	H	ADU entrance sensor	Paper present	No paper
[2]	A	PFP upper drawer detection switch	Drawer not installed	Drawer present
	B	-	-	-
	C	PFP upper drawer paper stock sensor	Paper almost empty	Paper present
	D	PFP upper drawer feed sensor	Paper present	No paper
	E	PFP connection	Not connected	Connected
	F	PFP side cover opening/closing switch	Cover opened	Cover closed
	G	PFP upper drawer empty sensor	No paper	Paper present
	H	PFP upper drawer tray-up sensor	Tray at upper limit position	Other than upper limit position
[3]	A	LCF tray bottom sensor	Tray at bottom position	Other than bottom position
	B	LCF standby side paper mis-stacking sensor	Correct stacking	Incorrect stacking
	C	-	-	-
	D	-	-	-
	E	LCF drawer detection switch	Drawer not installed	Drawer present
	F	-	-	-
	G	-	-	-
	H	LCF feed side paper stock sensor	Paper almost empty	Paper present
[4]	A	PFP lower drawer detection sensor	Drawer not installed	Drawer present
	B	-	-	-
	C	PFP lower drawer paper stock sensor	Paper almost empty	Paper present
	D	PFP lower drawer feed sensor	Paper present	No paper
	E	PFP motor rotation status (Motor is rotating at output mode (03))	Abnormal rotation	Normal rotation
	F	-	-	-
	G	PFP lower drawer empty sensor	No paper	Paper present
	H	PFP lower drawer tray-up sensor	Tray at upper limit position	Other than upper limit position

Digital key	Button	Items to check	Contents	
			Highlighted display e.g. 	Normal display e.g. 
[5]	A	LCF end fence home position sensor	Fence home position	Other than home position
	B	LCF end fence stop position sensor	Fence stop position	Other than stop position
	C	LCF standby side empty sensor	No paper	Paper present
	D	LCF side cover opening/closing switch	Cover closed	Cover opened
	E	LCF motor rotation status (Motor is rotating at output mode (03))	Abnormal rotation	Normal rotation
	F	LCF tray-up sensor	Tray at upper limit position	Other than upper limit position
	G	LCF feed sensor	No paper	Paper present
	H	LCF feed side empty sensor	Paper present	No paper
[6]	A	-	-	-
	B	-	-	-
	C	-	-	-
	D	-	-	-
	E	Upper drawer feed sensor	Paper present	No paper
	F	Toner bag full detection sensor-1	Toner bag full	Toner bag not full
	G	Upper drawer empty sensor	No paper	Paper present
	H	Upper drawer tray-up sensor	Tray at upper limit position	Other than upper limit position
[7]	A	-	-	-
	B	-	-	-
	C	-	-	-
	D	-	-	-
	E	Lower drawer feed sensor	Paper present	No paper
	F	-	-	-
	G	Lower drawer empty sensor	No paper	Paper present
	H	Lower drawer tray-up sensor	Tray at upper limit position	Other than upper limit position
[8]	A	-	-	-
	B	Bypass feed paper width sensor-3	Refer to table 1	
	C	Bypass feed paper width sensor-2	Refer to table 1	
	D	Bypass feed paper width sensor-1	Refer to table 1	
	E	Bypass feed paper width sensor-0	Refer to table 1	
	F	Job Separator upper stack sensor (When Job Separator is installed)	Paper full	Paper not full
		Offset Tray home position sensor (When Offset Tray is installed)	Separetor at home position	Other than home position
	G	-	-	-
	H	Bridge unit transport cover opening/closing sensor (When bridge unit is installed)	Cover opened	Cover closed
		Job Separator cover switch (When Job Separator is installed)	Cover opened	Cover closed
		Offset Tray cover switch (When Offset Tray is installed)	Cover opened	Cover closed







Digital key	Button	Items to check	Contents	
			Highlighted display e.g. 	Normal display e.g. 
[9]	A	-	-	-
	B	-	-	-
	C	-	-	-
	D	Upper drawer detection switch	Drawer not installed	Drawer present
	E	Upper drawer paper stock sensor	Paper almost empty	Paper present
	F	-	-	-
	G	-	-	-
	H	-	-	-
[0]	A	-	-	-
	B	-	-	-
	C	-	-	-
	D	Lower drawer detection switch	Drawer not installed	Drawer present
	E	Lower drawer paper stock sensor	Paper almost empty	Paper present
	F	-	-	-
	G	-	-	-
	H	-	-	-

Table 1. Relation between the status of the bypass paper width sensor and paper size (width).

Bypass paper width sensor				Paper-width size
3	2	1	0	
0	1	1	1	A3/LD
1	0	1	1	A4-R/LT-R
1	1	0	1	A5-R/ST-R
1	1	1	0	Card size
0	0	1	1	B4-R/LG
1	0	0	1	B5-R

[FAX] button: ON ([FAX] LED: ON)

Digital key	Button	Items to check	Contents	
			Highlighted display e.g. 	Normal display e.g. 
[1]	A	-	-	-
	B	-	-	-
	C	24 V power supply	Power ON	Power OFF
	D	IPC board connection	Not connected	Connected
	E	-	-	-
	F	Polygonal motor rotation status (Motor is rotating at Output Mode (03))	Abnormal rotation	Normal rotation
	G	-	-	-
	H	Toner cartridge switch	OFF	ON
[2]	A	Registration sensor	Paper present	No paper
	B	Exit sensor	Paper present	No paper
	C	Auto-toner sensor connection	Not connected	Connected
	D	Front cover opening/closing switch	Cover opened	Cover closed
	E	Destination detection	Other than SAD	SAD
	F	-	-	-
	G	Side cover opening/closing switch	Cover opened	Cover closed
	H	Main motor rotation status (Motor is rotating at Output Mode (03))	Abnormal rotation	Normal rotation
[3]	A	-	-	-
	B	Key copy counter connection	Not connected	Connected
	C	Toner bag full detection sensor-2	Toner bag full	Toner bag not full
	D	Fuser unit connection	Fuser unit installed	Fuser unit not installed
	E	Bridge unit transport sensor-2 (When bridge unit is installed)	No paper	Paper present
	F	-	-	-
	G	Bridge unit paper full detection sensor (When bridge unit is installed)	Paper not full	Paper full
		Job Separator lower stack sensor (When Job Separator is installed)	Paper full	Paper not full
		Offset Tray stack sensor (When Offset Tray is installed)	Paper full	Paper not full
	H	Bridge unit transport sensor-1 (When bridge unit is installed)	No paper	Paper present
		Job Separator feed sensor (When Job Separator is installed)	Paper present	No paper
		Offset Tray feed sensor (When Offset Tray is installed)	Paper present	No paper
[4]	A	-	-	-
	B	-	-	-
	C	-	-	-
	D	-	-	-
	E	-	-	-
	F	Bypass feed sensor	No paper	Paper present
	G	-	-	-
	H	High-voltage power supply abnormality (shutdown) detection	Normal	Abnormal

Digital key	Button	Items to check	Contents	
			Highlighted display e.g. 	Normal display e.g. 
[5]	A	-	-	-
	B	-	-	-
	C	-	-	-
	D	-	-	-
	E	-	-	-
	F	RADF connection	RADF connected	Not connected
	G	Platen sensor	Platen cover opened	Platen cover closed
	H	Carriage home position sensor	Carriage at home position	Other than home position
[6]	A	-	-	-
	B	-	-	-
	C	-	-	-
	D	APS sensor (APS-R)	No original	Original present
	E	APS sensor (APS-C)	No original	Original present
	F	APS sensor (APS-3)	No original	Original present
	G	APS sensor (APS-2)	No original	Original present
	H	APS sensor (APS-1)	No original	Original present
[7]	A	RADF tray sensor	Original present	No original
	B	RADF empty sensor	Original present	No original
	C	RADF jam access cover switch	Cover opened	Cover closed
	D	RADF opening/closing sensor	RADF opened	RADF closed
	E	RADF exit sensor	Original present	No original
	F	RADF reverse sensor	Original present	No original
	G	RADF read sensor	Original present	No original
	H	RADF registration sensor	Original present	No original
[8]	A	-	-	-
	B	-	-	-
	C	-	-	-
	D	-	-	-
	E	RADF original length sensor	Original present	No original
	F	RADF original width sensor-1	Original present	No original
	G	RADF original width sensor-2	Original present	No original
	H	RADF original width sensor-3	Original present	No original





Digital key	Button	Items to check	Contents	
			Highlighted display e.g. 	Normal display e.g. 
[9]	A	Bridge unit/Job Separator/Offset Tray connection detection-1	Refer to table 2	
	B	Bridge unit/Job Separator/Offset Tray connection detection-2	Refer to table 2	
	C	Bridge unit/Job Separator/Offset Tray connection detection-3	Refer to table 2	
	D	-	-	-
	E	-	-	-
	F	-	-	-
	G	-	-	-
	H	-	-	-
[0]	A	Dongle (for Printer/Scanner kit (GM-2010))	Connectable	Not connectable
	B	Dongle (for Printer kit (GM-1010))	Connectable	Not connectable
	C	Dongle (for Scanner upgrade kit (GM-3010))	Connectable	Not connectable
	D	Dongles for other equipments/Other USB devices	Connectable	Not connectable
	E	-	-	-
	F	-	-	-
	G	-	-	-
	H	-	-	-

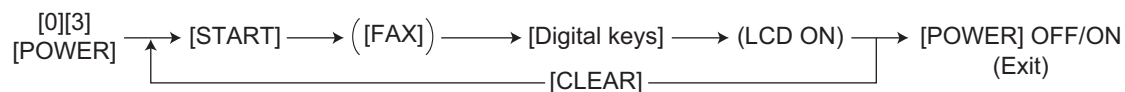
Table 2. Connecting status of additional options at inner area of the equipment

	Bridge unit	Job Separator	Offset Tray
Bridge unit/Job Separator/Offset Tray connection detection-1	Normal display	Highlighting display	Highlighting display
Bridge unit/Job Separator/Offset Tray connection detection-2	Highlighting display	Highlighting display	Normal display
Bridge unit/Job Separator/Offset Tray connection detection-3	Normal display	Normal display	Normal display

## 2.2.2 Input check (Test mode 03) (e-STUDIO352/353/452/453)

The status of each input signal can be checked by pressing the [FAX] button, and the digital keys in the test mode (03).

### <Operation procedure>



### Note:

Initialization is performed before the equipment enters the test mode.

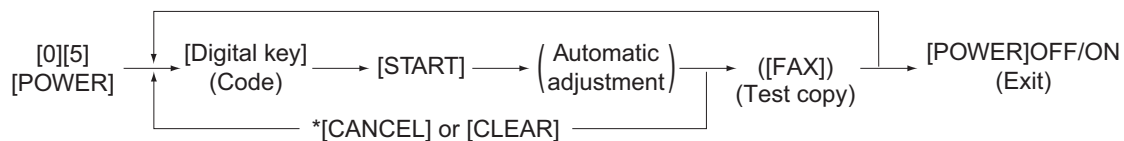






Fig. 2-3 Example of display during input check

Items to be checked and the condition of the equipment when the buttons [A] to [H] are highlighted are listed in the following pages.

[FAX] button: OFF/ [COPY] button: OFF ([FAX] LED: OFF/ [COPY] LED: OFF)

Digital key	Button	Items to check	Contents	
			Highlighted display e.g. 	Normal display e.g. 
[1]	A	-	-	-
	B	LCF connection	Not connected	Connected
	C	Bypass unit connection	Not connected	Connected
	D	Bypass paper sensor	No paper	Paper present
	E	ADU connection	Not connected	Connected
	F	ADU opening/closing switch	ADU opened	ADU closed
	G	ADU exit sensor	Paper present	No paper
	H	ADU entrance sensor	Paper present	No paper
[2]	A	PFP upper drawer detection switch	Drawer not installed	Drawer present
	B	-	-	-
	C	PFP upper drawer paper stock sensor	Paper almost empty	Paper present
	D	PFP upper drawer feed sensor	Paper present	No paper
	E	PFP connection	Not connected	Connected
	F	PFP side cover opening/closing switch	Cover opened	Cover closed
	G	PFP upper drawer empty sensor	No paper	Paper present
	H	PFP upper drawer tray-up sensor	Tray at upper limit position	Other than upper limit position
[3]	A	LCF tray bottom sensor	Tray at bottom position	Other than bottom position
	B	LCF standby side paper mis-stacking sensor	Correct stacking	Incorrect stacking
	C	-	-	-
	D	-	-	-
	E	LCF drawer detection switch	Drawer not installed	Drawer present
	F	-	-	-
	G	-	-	-
	H	LCF feed side paper stock sensor	Paper almost empty	Paper present
[4]	A	PFP lower drawer detection sensor	Drawer not installed	Drawer present
	B	-	-	-
	C	PFP lower drawer paper stock sensor	Paper almost empty	Paper present
	D	PFP lower drawer feed sensor	Paper present	No paper
	E	PFP motor rotation status (Motor is rotating at output mode (03))	Abnormal rotation	Normal rotation
	F	-	-	-
	G	PFP lower drawer empty sensor	No paper	Paper present
	H	PFP lower drawer tray-up sensor	Tray at upper limit position	Other than upper limit position

Digital key	Button	Items to check	Contents	
			Highlighted display e.g. 	Normal display e.g. 
[5]	A	LCF end fence home position sensor	Fence home position	Other than home position
	B	LCF end fence stop position sensor	Fence stop position	Other than stop position
	C	LCF standby side empty sensor	No paper	Paper present
	D	LCF side cover opening/closing switch	Cover closed	Cover opened
	E	LCF motor rotation status (Motor is rotating at output mode (03))	Abnormal rotation	Normal rotation
	F	LCF tray-up sensor	Tray at upper limit position	Other than upper limit position
	G	LCF feed sensor	No paper	Paper present
	H	LCF feed side empty sensor	Paper present	No paper
[6]	A	-	-	-
	B	-	-	-
	C	-	-	-
	D	-	-	-
	E	Upper drawer feed sensor	Paper present	No paper
	F	Toner bag full detection sensor-1	Toner bag full	Toner bag not full
	G	Upper drawer empty sensor	No paper	Paper present
	H	Upper drawer tray-up sensor	Tray at upper limit position	Other than upper limit position
[7]	A	-	-	-
	B	-	-	-
	C	-	-	-
	D	-	-	-
	E	Lower drawer feed sensor	Paper present	No paper
	F	-	-	-
	G	Lower drawer empty sensor	No paper	Paper present
	H	Lower drawer tray-up sensor	Tray at upper limit position	Other than upper limit position
[8]	A	-	-	-
	B	Bypass feed paper width sensor-3	Refer to table 1	
	C	Bypass feed paper width sensor-2	Refer to table 1	
	D	Bypass feed paper width sensor-1	Refer to table 1	
	E	Bypass feed paper width sensor-0	Refer to table 1	
	F	Job Separator upper stack sensor (When Job Separator is installed)	Paper full	Paper not full
		Offset Tray home position sensor (When Offset Tray is installed)	Separetor at home position	Other than home position
	G	-	-	-
	H	Bridge unit transport cover opening/closing sensor (When bridge unit is installed)	Cover opened	Cover closed
		Job Separator cover switch (When Job Separator is installed)	Cover opened	Cover closed
		Offset Tray cover switch (When Offset Tray is installed)	Cover opened	Cover closed







Digital key	Button	Items to check	Contents	
			Highlighted display e.g. 	Normal display e.g. 
[9]	A	-	-	-
	B	-	-	-
	C	-	-	-
	D	Upper drawer detection switch	Drawer not installed	Drawer present
	E	Upper drawer paper stock sensor	Paper almost empty	Paper present
	F	-	-	-
	G	-	-	-
	H	-	-	-
[0]	A	-	-	-
	B	-	-	-
	C	-	-	-
	D	Lower drawer detection switch	Drawer not installed	Drawer present
	E	Lower drawer paper stock sensor	Paper almost empty	Paper present
	F	-	-	-
	G	-	-	-
	H	-	-	-

Table 1. Relation between the status of the bypass paper width sensor and paper size (width).

Bypass paper width sensor				Paper-width size
3	2	1	0	
0	1	1	1	A3/LD
1	0	1	1	A4-R/LT-R
1	1	0	1	A5-R/ST-R
1	1	1	0	Card size
0	0	1	1	B4-R/LG
1	0	0	1	B5-R

[FAX] button: ON/ [COPY] button: OFF ([FAX] LED: ON/ [COPY] LED: OFF)

Digital key	Button	Items to check	Contents	
			Highlighted display e.g. 	Normal display e.g. 
[1]	A	-	-	-
	B	-	-	-
	C	24 V power supply	Power ON	Power OFF
	D	IPC board connection	Not connected	Connected
	E	-	-	-
	F	Polygonal motor rotation status (Motor is rotating at Output Mode (03))	Abnormal rotation	Normal rotation
	G	-	-	-
	H	Toner cartridge switch	OFF	ON
[2]	A	Registration sensor	Paper present	No paper
	B	Exit sensor	Paper present	No paper
	C	Auto-toner sensor connection	Not connected	Connected
	D	Front cover opening/closing switch	Cover opened	Cover closed
	E	Destination detection	Other than SAD	SAD
	F	-	-	-
	G	Side cover opening/closing switch	Cover opened	Cover closed
	H	Main motor rotation status (Motor is rotating at Output Mode (03))	Abnormal rotation	Normal rotation
[3]	A	-	-	-
	B	Key copy counter connection	Not connected	Connected
	C	Toner bag full detection sensor-2	Toner bag full	Toner bag not full
	D	Fuser unit connection	Fuser unit installed	Fuser unit not installed
	E	Bridge unit transport sensor-2 (When bridge unit is installed)	No paper	Paper present
	F	-	-	-
	G	Bridge unit paper full detection sensor (When bridge unit is installed)	Paper not full	Paper full
		Job Separator lower stack sensor (When Job Separator is installed)	Paper full	Paper not full
		Offset Tray stack sensor (When Offset Tray is installed)	Paper full	Paper not full
	H	Bridge unit transport sensor-1 (When bridge unit is installed)	No paper	Paper present
		Job Separator feed sensor (When Job Separator is installed)	Paper present	No paper
		Offset Tray feed sensor (When Offset Tray is installed)	Paper present	No paper
[4]	A	-	-	-
	B	-	-	-
	C	-	-	-
	D	-	-	-
	E	-	-	-
	F	Bypass feed sensor	No paper	Paper present
	G	-	-	-
	H	High-voltage power supply abnormality (shutdown) detection	Normal	Abnormal

Digital key	Button	Items to check	Contents	
			Highlighted display e.g. 	Normal display e.g. 
[5]	A	-	-	-
	B	-	-	-
	C	-	-	-
	D	-	-	-
	E	-	-	-
	F	RADF connection	RADF connected	Not connected
	G	Platen sensor	Platen cover opened	Platen cover closed
	H	Carriage home position sensor	Carriage at home position	Other than home position
[6]	A	-	-	-
	B	-	-	-
	C	-	-	-
	D	APS sensor (APS-R)	No original	Original present
	E	APS sensor (APS-C)	No original	Original present
	F	APS sensor (APS-3)	No original	Original present
	G	APS sensor (APS-2)	No original	Original present
	H	APS sensor (APS-1)	No original	Original present
[7]	A	[RADF] Original tray sensor	Original present	No original
	B	[RADF] Original empty sensor	Original present	No original
	C	[RADF] Jam access cover sensor	Cover opened	Cover closed
	D	[RADF] RADF opening/closing sensor	RADF opened	RADF closed
	E	[RADF] Original exit/reverse sensor	Original present	No original
	F	[RADF] Original intermediate transport sensor	Original present	No original
	G	[RADF] Read sensor	Original present	No original
	H	[RADF] Original registration sensor	Original present	No original
[8]	A	[RADF] Original tray width sensor (TWID0S) (Refer to table3)	OFF (H)	ON (L)
	B	[RADF] Original tray width sensor (TWID1S) (Refer to table3)	OFF (H)	ON (L)
	C	[RADF] Original tray width sensor (TWID2S) (Refer to table3)	OFF (H)	ON (L)
	D	-	-	-
	E	[RADF] Original length detection sensor	Original present	No original
	F	[RADF] Original width detection sensor-1	Original present	No original
	G	[RADF] Original width detection sensor-2	Original present	No original
	H	-	-	-



Digital key	Button	Items to check	Contents	
			Highlighted display e.g. 	Normal display e.g. 
[9]	A	Bridge unit/Job Separator/Offset Tray connection detection-1	Refer to table 2	
	B	Bridge unit/Job Separator/Offset Tray connection detection-2	Refer to table 2	
	C	Bridge unit/Job Separator/Offset Tray connection detection-3	Refer to table 2	
	D	-	-	-
	E	-	-	-
	F	-	-	-
	G	-	-	-
	H	-	-	-
[0]	A	-	-	-
	B	-	-	-
	C	-	-	-
	D	-	-	-
	E	-	-	-
	F	-	-	-
	G	-	-	-
	H	-	-	-

Table 2. Connecting status of additional options at inner area of the equipment

	Bridge unit	Job Separator	Offset Tray
Bridge unit/Job Separator/Offset Tray connection detection-1	Normal display	Highlighting display	Highlighting display
Bridge unit/Job Separator/Offset Tray connection detection-2	Highlighting display	Highlighting display	Normal display
Bridge unit/Job Separator/Offset Tray connection detection-3	Normal display	Normal display	Normal display



Table 3. Relation between the status of the original tray width sensor and paper size (width).

Original tray width sensor			Paper width size (LT series)	Paper width size (A4 series)
TWID2S	TWID1S	TWID0S		
H	H	H	LD/LT	A3/A4
H	H	L	-	B5-R
H	L	H	ST-R	A5-R
L	H	H	LD/LT	A3/A4
L	H	L	-	-
L	L	H	8.5" x 8.5" / LT-R / LG / 13" LG	A4-R/FOLIO
L	L	L	COMPUTER	B4/B5

H (= high level): Open L (= low level): Short



[FAX] button: OFF/ [COPY] button: ON ([FAX] LED: OFF/ [COPY] LED: ON)

Digital key	Button	Items to check	Contents	
			Highlighted display e.g. 	Normal display e.g. 
[0]	A	Dongle (for Printer/Scanner kit (GM-2060)) Connected	Connectable	Not connectable
	B	Dongle (for Printer kit (GM-1060)) Connected	Connectable	Not connectable
	C	Dongle (for Scanner kit (GM-4060)) Connected	Connectable	Not connectable
	D	Dongles for other equipments/Other USB devices Connected	Connectable	Not connectable
	E	Judgement for acceptable USB storage device (*1)	Acceptable	Not acceptable
	F	-	-	-
	G	-	-	-
	H	-	-	-

\*1

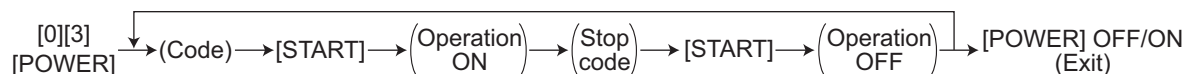
- Be sure to install the USB storage device to the equipment and check if the device can be used with this code.
- Be sure to turn OFF the write protection (the function to prevent data from erasure by the accidental recording or deleting) of the USB storage device before performing the check, otherwise this code cannot be used.
- It may take some time (2 sec. to 10 sec.) before this check is completed depending on the USB storage device.

## 2.2.3 Output check (test mode 03)

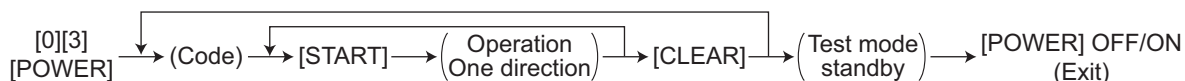
Status of the output signals can be checked by entering the following codes in the test mode 03.

<Operation procedure>

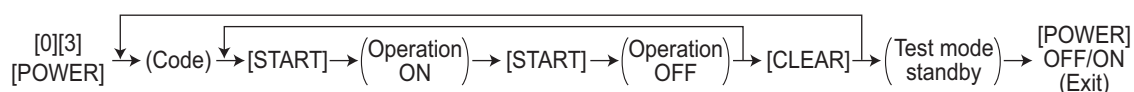
### Procedure 1



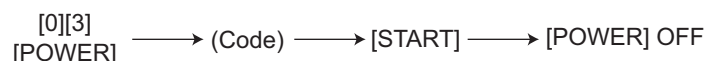
### Procedure 2



### Procedure 3



### Procedure 4



Code	Function	Code	Function	Procedure
101	Main motor ON (operational without developer unit)	151	Code No.101 function OFF	1
102	Toner motor ON (normal rotation)	152	Code No.102 function OFF	1
103	Polygonal motor ON (600 dpi)	153	Code No.103 function OFF	1
108	Registration clutch ON	158	Code No.108 function OFF	1
109	PFP motor ON	159	Code No.109 function OFF	1
110	ADU motor ON	160	Code No.110 function OFF	1
118	Laser ON	168	Code No.118 function OFF	1
120	Exit motor ON (normal rotation)	170	Code No.120 function OFF	1
121	Exit motor ON (reverse rotation)	171	Code No.121 function OFF	1
122	LCF motor ON	172	Code No.122 function OFF	1
177	Offset Tray motor ON (reciprocating movement)			2
201	Upper drawer feed clutch ON/OFF			3
202	Lower drawer feed clutch ON/OFF			3
203	Transport clutch (high speed) ON/OFF			3
204	Bypass feed clutch ON/OFF			3
205	Transport clutch (low speed) ON/OFF			3
206	LCF pickup solenoid ON/OFF			3

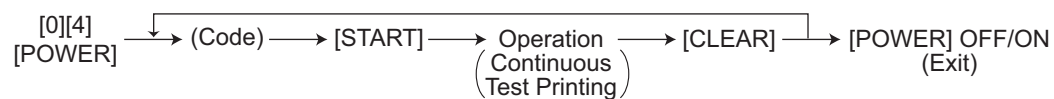
Code	Function	Procedure
207	LCF end fence reciprocating movement	2
208	LCF end fence motor ON/OFF	3
209	LCF feed clutch ON/OFF	3
210	LCF transport clutch ON/OFF	3
217	Sub-separation fan ON/OFF	3
218	Key copy counter count up	2
222	ADU clutch ON/OFF	3
225	PFP transport clutch ON/OFF	3
226	PFP upper drawer feed clutch ON/OFF	3
228	PFP lower drawer feed clutch ON/OFF	3
232	Bridge unit gate solenoid ON/OFF	3
234	Bypass pickup solenoid ON/OFF	3
235	Discharge LED ON/OFF	3
236	Exhaust fan ON/OFF (low speed)	3
237	Exhaust fan ON/OFF (high speed)	3
238	IH board cooling fan ON/OFF (high speed)	3
241	IH board cooling fan ON/OFF (low speed)	3
242	Upper drawer tray-up motor ON (tray up)	2
243	Lower drawer tray-up motor ON (tray up)	2
248	Developer bias [+DC] ON/OFF	3
249	Developer bias [-DC] ON/OFF	3
252	Main charger ON/OFF	3
253	Separation bias ON/OFF	3
255	Transfer guide bias ON/OFF	3
256	Transfer transformer ON/OFF	3
261	Scan motor ON (Automatically stops at limit position; speed can be changed with the [ZOOM] button)	2
264	SLG board cooling fan 1 ON/OFF	3
265	SLG board cooling fan 2 ON/OFF	3
267	Scanner exposure lamp ON/OFF	3
268	Laser unit cooling fan ON/OFF (high speed)	3
269	Laser unit cooling fan ON/OFF (low speed)	3
271	LCF tray-up motor (up/down)	2
278	PFP upper drawer tray-up motor ON (tray up)	2
280	PFP lower drawer tray-up motor ON (tray up)	2
281	RADF feed motor ON/OFF (normal rotation) : MR-3015 RADF original feed motor ON/OFF (normal rotation) : MR-3018	3
282	RADF feed motor ON/OFF (reverse rotation) : MR-3015 RADF original feed motor ON/OFF (reverse rotation) : MR-3018	3
283	RADF read motor ON/OFF (normal rotation)	3
284	RADF reverse motor ON/OFF (normal rotation) : MR-3015 RADF original exit/reverse motor ON/OFF (normal rotation) : MR-3018	3
285	RADF reverse motor ON/OFF (reverse rotation) : MR-3015 RADF original exit/reverse motor ON/OFF (reverse rotation) : MR-3018	3

<b>Code</b>	<b>Function</b>	<b>Procedure</b>
289	Developer unit cooling fan-1 ON/OFF (high speed)	3
290	Developer unit cooling fan-1 ON/OFF (low speed)	3
294	RADF reverse solenoid ON/OFF : MR-3015 RADF gate solenoid ON/OFF : MR-3018	3
295	Power OFF mode (for 200 V series)	4
297	RADF fan motor ON/OFF	3
410	Power supply cooling fan ON/OFF (low speed)	3
411	Power supply cooling fan ON/OFF (high speed)	3
412	Middle fan ON/OFF (high speed)	3
413	Middle fan ON/OFF (low speed)	3
432	Developer drive clutch ON/OFF	3
461	Fuser unit cooling fan ON/OFF (low speed)	3
462	Fuser unit cooling fan ON/OFF (high speed)	3
463	Developer unit cooling fan-2 ON/OFF (low speed)	3
464	Developer unit cooling fan-2 ON/OFF (high speed)	3

## 2.2.4 Test print mode (test mode 04)

The embedded test pattern can be printed out by keying in the following codes in the test print mode (04).

### <Operation procedure>



### Notes:

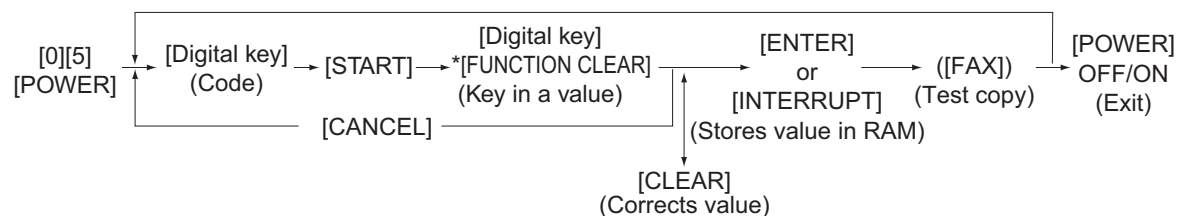
1. When an error occurs, it is indicated on the panel, but the recovery operation is not performed. Turn OFF the power and then back ON to clear the error.
2. During test printing, the [CLEAR] button is disabled when "Wait adding toner" is displayed.

Code	Types of test pattern	Remarks
111	Primary scanning direction 33 gradation steps	Error diffusion
113	Secondary scanning direction 33 gradation steps	Error diffusion
142	Grid pattern	Pattern width: 2 dots, Pitch: 10 mm

## 2.2.5 Adjustment mode (05) (e-STUDIO350/450)

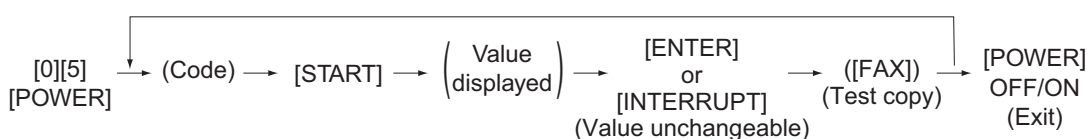
Items in the adjustment mode list in the following pages can be corrected or changed in the adjustment mode (05). Turn ON the power with pressing the digital keys [0] and [5] simultaneously in order to enter this mode.

### Procedure 1

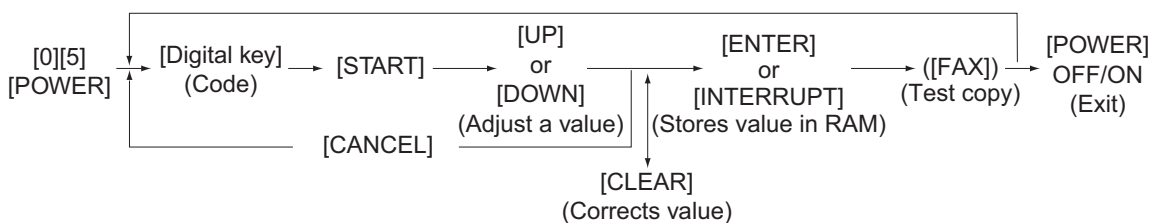


\* Press [FUNCTION CLEAR] to enter minus (-).

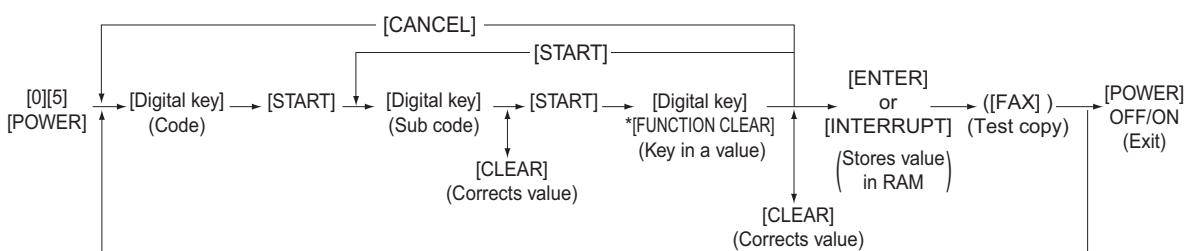
### Procedure 2



### Procedure 3

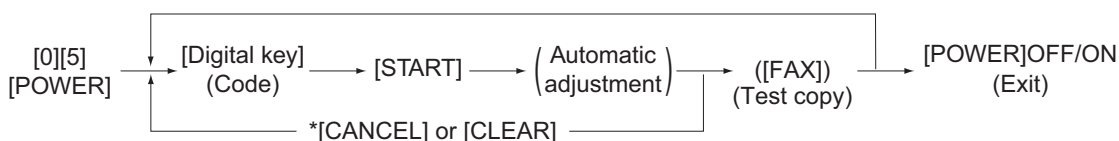


### Procedure 4



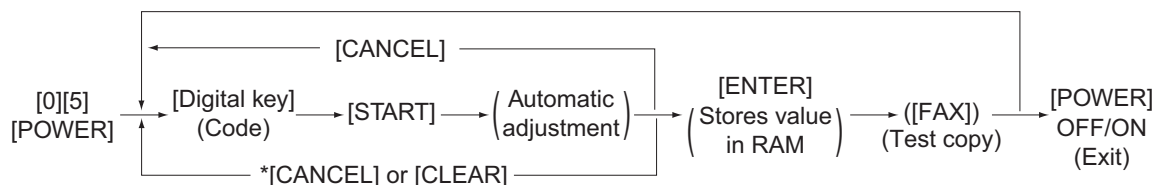
\* Press [FUNCTION CLEAR] to enter minus (-).

### Procedure 6



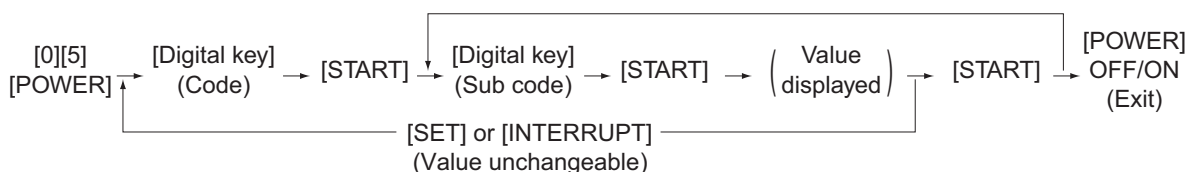
\* When the automatic adjustment ends abnormally, error message is displayed.

## Procedure 7

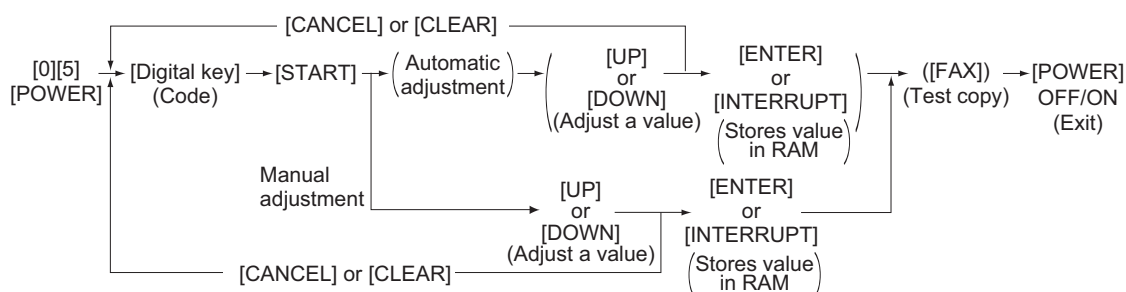


\* When the automatic adjustment ends abnormally, error message is displayed.

## Procedure 10



## Procedure 17



\* When the "storing" is not performed within 2 minutes after pressing the [START] button at the manual adjustment, the "automatic adjustment" starts automatically.

**Note:**

The fuser roller temperature control at the adjustment mode is different from that at the normal state. Therefore, the problem of fusing efficiency may be occurred in the test copy at the adjustment mode. In that case, turn ON the power normally, leave the equipment for approx. 3 minutes after it has become ready state and then start up the adjustment mode again.

**Test print pattern in Adjustment Mode (05)**

Operation:

One test print is printed out when the [FAX] button is pressed after the code is keyed in at Standby Screen.

Code	Types of test pattern	Remarks
1	Grid pattern	Refer to  P. 3-7 "3.2.3 Printer related adjustment"
3	Grid pattern (Duplex printing)	Refer to  P. 3-7 "3.2.3 Printer related adjustment"

**Notes:**

1. The digit after the hyphen in "Code" of the following table is a sub code.
2. In "RAM", the NVRAM of the board in which the data of each code is stored is indicated. "M" stands for the LGC board and "SYS" stands for the SYS board.

Adjustment mode (05) <e-STUDIO350/450>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
200	Developer	Automatic adjustment of auto-toner sensor (Fuser-heater ON)	ALL	-	-	As the value increases, the sensor output increases correspondingly. The value starts changing approx. 2 minutes after this adjustment was started and is automatically set in the range of 2.35 to 2.45V. * Selection is disable when developer unit is not installed. (P. 3-1)	17
201	Developer	Correction of auto-toner sensor (Fuser heater ON)	ALL	128 <0-255>	M	Corrects the control value of the auto-toner sensor setup in 05-200. * Selection is disable when developer unit is not installed.	3
205	Developer	Developer bias DC output-adjustment	ALL	189 <0-255>	M	As the value increases, the transformer output increases correspondingly. Remove the developer unit and install the adjustment jig to make adjustment. However, the adjustment jig is not necessary to adjust the developer bias DC.(P. 3-29)	3
210	Charger	Main charger grid bias output adjustment	ALL	154 <0-255>	M		3
221	Transfer	Transfer transformer DC output adjustment/Center value	ALL	115 <0-255>	M		3
231	Separation	Separation transformer AC output adjustment/Center value	ALL	166 <0-255>	M		3
286	Laser	Laser power adjustment	ALL	121 <0-255>	M	When the value increases, the laser output increases correspondingly.	3
305	Scanner	Image location adjustment of secondary scanning direction (scanner section)	ALL	128 <92-164>	SYS	When the value increases by "1", the image shifts by approx. 0.137mm toward the trailing edge of the paper.	1
306	Scanner	Image location adjustment of primary scanning direction (scanner section)	ALL	145 <0-255>	SYS	When the value increases by "1", the image shifts by approx. 0.0846mm toward the front side of the paper.	1
308	Scanner	Distortion mode	ALL	-	-	Moves carriages to the adjusting position. (P. 3-12)	6



Adjustment mode (05) <e-STUDIO350/450>								
Code	Classifi- cation	Items		Func- tion	Default <Accept- able value>	RAM	Contents	Pro- cedur e
340	Scanner	Reproduction ratio adjust- ment of secondary scan- ning direction (scanner section)		ALL	128 <0-255>	SYS	When the value increases by “1”, the reproduction ratio in the secondary scan- ning direction (vertical to paper feeding direc- tion) increases by approx. 0.223%.	1
354	RADF	Adjustment of RADF paper alignment	for single- sidedorigi- nal	ALL	10 <0-20>	SYS	When the value increases by “1”, the aligning amount increases by approx. 0.5mm.	1
355			for double- sidedorigi- nal	ALL	10 <0-20>	SYS		1
356	RADF	Automatic adjustment of RADF sensor and EEPROM initialization		ALL	-	SYS	Performs the adjust- ment and initialization when the RADF board or RADF sensor is replaced.	6
357	RADF	Fine adjustment of RADF transport speed		ALL	50 <0-100>	SYS	When the value increases by “1”, the reproduction ratio of the secondary scan- ning direction when using the RADF increases by approx. 0.1%.	1
358	RADF	RADF sideways deviation adjustment		ALL	128 <0-255>	SYS	When the value increases by “1”, the image of original fed from the RADF shifts toward the rear side of paper by approx. 0.0846mm.	1
359	Scanner	Carriage position adjust- ment during scanning from RADF		ALL	128 <0-255>	SYS	When the value increases by “1”, the carriage position when using the RADF shifts by approx. 0.1 mm toward the original feeding side.	1
365	RADF	RADF lead- ing edge posi- tion adjustment	for single sided origi- nal	ALL	50 <0-100>	SYS	When the value increases by “1”, the copied image of origi- nal fed from the RADF shifts toward the trailing edge of paper by approx. 0.1mm.	1
366			for double sided origi- nal	ALL	50 <0-100>	SYS		1

Adjustment mode (05) <e-STUDIO350/450>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
367	RADF	RADF original guide width adjustment (Minimum)	ALL	-	-	Stores the current width of RADF original guide by keying in this code with the guide set at the minimum width. Perform this adjustment when the RADF board or volume is replaced, or when the code (05-356) is performed.	6
368	Laser	RADF original guide width adjustment (Maximum)	ALL	-	-	Stores the current width of RADF original guide by keying in this code with the guide set at the maximum width. Perform this adjustment when the RADF board or volume is replaced, or when the code (05-356) is performed.	6
401	Laser	Fine adjustment of polygonal motor rotation speed (adjustment of primary scanning direction reproduction ratio)	PRT	133 <0-255>	M	When the value increases by "1", the reproduction ratio of primary scanning direction increases by approx. 0.07%. (approx. 0.1mm/step)	1
405			PPC	129 <0-255>	M		
410	Laser	Adjustment of primary scanning laser writing start position.	PPC	128 <0-255>	M	When the value increases by "1", the writing start position shifts to the front side by approx. 0.0423mm.	1
411			PRT	128 <0-255>	M		
421	Drive	Adjustment of secondary scanning direction reproduction ratio (fine adjustment of main motor speed)	PPC/ PRT	138 <0-255>	M	When the value increases by "1", the reproduction ratio of secondary scanning direction increases by approx. 0.04%.	1
422			FAX	139 <0-255>	M		
424	Drive	Fine adjustment of exit motor speed	PPC/ PRT	107 <0-255>	M	When the value increases by "1", the rotation becomes faster by approx. 0.05%.	1
425			FAX	121 <0-255>	M		
430	Image	Top margin adjustment (blank area at the leading edge of the paper)	PPC	0 <0-255>	M	When the value increases by "1", the blank area becomes wider by approx. 0.0423mm.	1
431	Image	Left margin adjustment (blank area at the left of the paper along the paper feeding direction)	PPC	0 <0-255>	M		1

Adjustment mode (05) <e-STUDIO350/450>								
Code	Classifi- cation	Items		Func- tion	Default <Accept- able value>	RAM	Contents	Pro- cedur e
432	Image	Right margin adjustment (blank area at the right of the paper along the paper feeding direction)		PPC	0 <0-255>	M	When the value increases by “1”, the blank area becomes wider by approx. 0.0423 mm.	1
433	Image	Bottom margin adjustment (blank area at the trailing edge of the paper)		PPC	0 <0-255>	M		1
434-0	Image	Bottom margin adjustment (blank area at the trailing edge of the paper)/ Reverse side at duplexing		PPC/ PRT	EUR: 48 UC:24 JPN: 24 Others: 48 <0-255>	M		4
434-1	Image	Right margin adjustment (blank area at the right of the paper along the paper feeding direction)/Reverse side at duplexing		PPC/ PRT	12 <0-255>	M		4
435	Image	Top margin adjustment (blank area at the leading edge of the paper)		PRT	24 <0-255>	M		1
436	Image	Left margin adjustment (blank area at the left of the paper along the paper feeding direction)		PRT	0 <0-255>	M		1
437	Image	Right margin adjustment (blank area at the right of the paper along the paper feeding direction)		PRT	0 <0-255>	M		1
438	Image	Bottom margin adjustment (blank area at the trailing edge of the paper)		PRT	0 <0-255>	M		1
440	Laser	Adjustment of secondary scanning laser writing start position	Upper drawer	ALL	7 <0-15>	M	When the value increases by “1”, the image shifts toward the leading edge of the paper by approx. 0.2mm.	1
441			Lower drawer	ALL	24 <0-40>	M		1
442			Bypass feeding	ALL	8 <0-15>	M		1
443			LCF	ALL	8 <0-15>	M		1
444			PFP	ALL	8 <0-15>	M		1
445			Duplex feeding	ALL	8 <0-15>	M		1

Adjustment mode (05) <e-STUDIO350/450>								
Code	Classifi- cation	Items		Func- tion	Default <Accept- able value>	RAM	Contents	Pro- cedur e
448-0	Paper feeding	Paper aligning amount adjustment at the registra- tion section (PFP upper drawer / Plain paper)	Long size	ALL	10 <0-63>	M	When the value increases by “1”, the aligning amount increases by approx. 0.8 mm. <Paper length> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter	4
448-1			Middle size	ALL	10 <0-63>	M		4
448-2			Short size 1	ALL	8 <0-63>	M		4
449-0	Paper feeding	Paper aligning amount adjustment at the registra- tion section (PFP lower drawer / Plain paper)	Long size	ALL	10 <0-63>	M		4
449-1			Middle size	ALL	10 <0-63>	M		4
449-2			Short size	ALL	8 <0-63>	M		4
450-0	Paper feeding	Paper aligning amount adjustment at the registra- tion section (Upper drawer / Plain paper)	Long size	ALL	17 <0-63>	M		4
450-1			Middle size	ALL	17 <0-63>	M		4
450-2			Short size	ALL	17 <0-63>	M		4
452-0	Paper feeding	Paper aligning amount adjustment at the registra- tion section (Lower drawer / Plain paper)	Long size	ALL	12 <0-63>	M		4
452-1			Middle size	ALL	10 <0-63>	M		4
452-2			Short size	ALL	10 <0-63>	M		4
455-0	Paper feeding	Paper aligning amount adjustment at the registra- tion section (Duplex feed- ing / Plain paper)	Long size	ALL	20 <0-63>	M		4
455-1			Middle size	ALL	20 <0-63>	M		4
455-2			Short size	ALL	30 <0-63>	M		4
457	Paper feeding	Paper aligning amount adjustment at the registra- tion section (LCF / Plain paper)		ALL	8 <0-63>	M		1

Adjustment mode (05) <e-STUDIO350/450>								
Code	Classifi- cation	Items		Func- tion	Default <Accept- able value>	RAM	Contents	Pro- cedur e
458-0	Paper feeding	Paper aligning amount adjustment at the registra- tion section (Bypass feed- ing/Plain paper)	Long size	ALL	26 <0-63>	M	When the value increases by “1”, the aligning amount increases by approx. 0.8 mm. <Paper length> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter * Postcard is sup- ported only for JPN model.	4
458-1			Middle size	ALL	26 <0-63>	M		4
458-2			Short size	ALL	25 <0-63>	M		4
460-0	Paper feeding	Paper aligning amount adjustment at the registra- tion section (Bypass feed- ing/Thick paper 1)	Long size	ALL	26 <0-63>	M		4
460-1			Middle size	ALL	26 <0-63>	M		4
460-2			Short size	ALL	26 <0-63>	M		4
461-0	Paper feeding	Paper aligning amount adjustment at the registra- tion section (Bypass feed- ing/Thick paper 2)	Long size	ALL	17 <0-63>	M		4
461-1			Middle size	ALL	17 <0-63>	M		4
461-2			Short size	ALL	17 <0-63>	M		4
462-0	Paper feeding	Paper aligning amount adjustment at the registra- tion section (Bypass feed- ing/Thick paper 3)	Long size	ALL	17 <0-63>	M		4
462-1			Middle size	ALL	17 <0-63>	M		4
462-2			Short size	ALL	17 <0-63>	M		4
462-3			Post card	ALL	14 <0-63>	M		4
463-0	Paper feeding	Paper aligning amount adjustment at the registra- tion section (Bypass feed- ing/OHP film)	Long size	ALL	26 <0-63>	M	4	
463-1			Middle size	ALL	26 <0-63>	M	4	
463-2			Short size	ALL	26 <0-63>	M	4	
466-0	Paper feeding	Adjustment of paper push- ing amount / Bypass feed- ing	Plain paper	ALL	143 <0-255>	M	When the value increases by “1”, the driving speed of bypass feed roller increases by approx. 0.2 ms when the paper transport is started from the regis- tration section. * Post card is sup- ported only for JPN model.	4
466-1			Post card	ALL	173 <0-255>	M		4
466-4			Thick paper 1	ALL	143 <0-255>	M		4
466-5			Thick paper 2	ALL	143 <0-255>	M		4
466-6			Thick paper 3	ALL	143 <0-255>	M		4
466-7			OHP film	ALL	128 <0-255>	M		4

Adjustment mode (05) <e-STUDIO350/450>								
Code	Classification	Items		Function	Default <Acceptable value>	RAM	Contents	Procedure
467	Paper feeding	Adjustment of paper pushing amount/Duplex feeding (short size)		ALL	128 <0-255>	M	When the value increases by “1”, the driving speed of ADU transport roller increases by approx. 0.2 ms when the paper transport is started from the registration section.	1
468-0	Finisher	Fine adjustment of binding position/folding position	A4-R/LT-R	ALL	0 <-14-14>	M	When the value increases by “1”, the binding/folding position shifts toward the right page by 0.25 mm.	4
468-1			B4	ALL	0 <-14-14>	M		4
468-2			A3/LD	ALL	0 <-14-14>	M		4
469-0	Paper feeding	Paper aligning amount adjustment at the registration section (Upper drawer)	Thick Paper 1 Long size	ALL	20 <0-63>	M	When the value increases by "1", the aligning amount increases by approx. 0.8 mm. <Paper length> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter	4
469-1			Thick Paper 1 Middle size	ALL	20 <0-63>	M		4
469-2			Thick Paper 1 Short size	ALL	20 <0-63>	M		4
469-3			Thick Paper 2 Long size	ALL	20 <0-63>	M		4
469-4			Thick Paper 2 Middle size	ALL	22 <0-63>	M		4
469-5			Thick Paper 2 Short size	ALL	19 <0-63>	M		4
470-0	Paper feeding	Paper aligning amount adjustment at the registration section (Lower drawer / Thick paper 1)	Long size	ALL	20 <0-63>	M		4
470-1			Middle size	ALL	22 <0-63>	M		4
470-2			Short size	ALL	19 <0-63>	M		4
471-0	Paper feeding	Paper aligning amount adjustment at the registration section (PFP upper drawer / Thick paper 1)	Long size	ALL	20 <0-63>	M		4
471-1			Middle size	ALL	22 <0-63>	M		4
471-2			Short size	ALL	19 <0-63>	M		4

Adjustment mode (05) <e-STUDIO350/450>								
Code	Classification	Items		Function	Default <Acceptable value>	RAM	Contents	Procedure
472-0	Paper feeding	Paper aligning amount adjustment at the registration section (PFP lower drawer / Thick paper 1)	Long size	ALL	20 <0-63>	M	When the value increases by "1", the aligning amount increases by approx. 0.8 mm. <Paper length> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter	4
472-1			Middle size	ALL	22 <0-63>	M		4
472-2			Short size	ALL	19 <0-63>	M		4
473	Paper feeding	Paper aligning amount adjustment at the registration section (LCF / Thick paper 1)		ALL	8 <0-63>	M		1
474-0	Paper feeding	Paper aligning amount adjustment at the registration section (Duplex feeding / Thick paper 1)	Long size	ALL	24 <0-63>	M		4
474-1			Middle size	ALL	24 <0-63>	M		4
474-2			Short size	ALL	33 <0-63>	M		4
497-0	Laser	Adjustment of drawer side-ways deviation	Upper drawer	ALL	128 <0-255>	M	When the value increases by "1", the image shifts toward the front side by 0.0423 mm.	4
497-1			Lower drawer	ALL	128 <0-255>	M		4
497-2			PFP upper drawer	ALL	128 <0-255>	M		4
497-3			PFP lower drawer	ALL	128 <0-255>	M		4
497-4			LCF	ALL	128 <0-255>	M		4
497-5			Bypass feeding	ALL	128 <0-255>	M		4
498-0	Laser	Adjustment of primary scanning laser writing start position at duplex feeding	Long size	ALL	148 <0-255>	M	When the value increases by "1", the image shifts toward the front side by 0.0423 mm.	4
498-1			Short size(A4/LT or smaller)	ALL	148 <0-255>	M		4
501	Image	Density adjustment Fine adjustment of "manual density" / Center value	Photo	PPC	128 <0-255>	SYS	When the value increases, the image at the center step becomes darker.	1
503			Text/Photo	PPC	128 <0-255>	SYS		1
504			Text	PPC	128 <0-255>	SYS		1
505	Image	Density adjustment Fine adjustment of "manual density" / Light step value	Text/Photo	PPC	20 <0-255>	SYS	When the value increases, the image of the "light" steps becomes lighter.	1
506			Photo	PPC	20 <0-255>	SYS		1
507			Text	PPC	20 <0-255>	SYS		1

Adjustment mode (05) <e-STUDIO350/450>								
Code	Classifi- cation	Items		Func- tion	Default <Accept- able value>	RAM	Contents	Pro- cedur e
508	Image	Density adjustment Fine adjust- ment of “man- ual density” /Dark step value	Text/Photo	PPC	EUR: 20 UC: 20 JPN : 30 <0-255>	SYS	When the value increases, the image of the “dark” steps becomes darker.	1
509			Photo	PPC	EUR: 24 UC: 24 JPN: 24 <0-255>	SYS		1
510			Text	PPC	EUR: 20 UC: 20 JPN: 27 <0-255>	SYS		1
512	Image	Density adjustment Fine adjust- ment of “auto- matic density”	Photo	PPC	128 <0-255>	SYS	When the value increases, the image becomes darker.	1
514			Text/Photo	PPC	128 <0-255>	SYS		1
515			Text	PPC	128 <0-255>	SYS		1
532	Image	Range correc- tion / Back- ground peak adjustment	Text/Photo	PPC	40 <0-255>	SYS	When the value increases, the back- ground becomes more brightened.	1
533			Photo	PPC	16 <0-255>	SYS		1
534			Text	PPC	64 <0-255>	SYS		1
570	Image	Range correc- tion on origi- nal manually set on the original glass	Text/Photo	PPC	EUR: 12 UC: 12 JPN: 22 <11-14, 21-24, 31-34, 41-44>	SYS	Sets whether the val- ues of the background peak and text peak are fixed or not. One’s place is an adjustment for “automatic density” and ten’s place is for “manual density”. Once they are fixed, the range correction is per- formed with standard values. The values of the background peak and text peak affect the reproduction of the background density and text density respectively. Background peak Text peak 1: fixed/fixed 2: varied/fixed 3: fixed/varied 4: varied	1
571			Photo	PPC	12 <11-14, 21-24, 31-34, 41-44>	SYS		1
572			Text	PPC	22 <11-14, 21-24, 31-34, 41-44>	SYS		1



Adjustment mode (05) <e-STUDIO350/450>								
Code	Classifi- cation	Items		Func- tion	Default <Accept- able value>	RAM	Contents	Pro- cedur e
593	Image	Gamma data slope adjust- ment	Text/Photo	PPC	0 <0-99>	SYS	One's place: 0:Equivalent to the set value 5 1 to 9: Select the slope of Gamma curve (The larger the value is, the larger the slope becomes.) Ten's place: 0: Equivalent to the set value 5 1 to 9: Select the slope of low density (The smaller the value is, the darker the back- ground becomes.) 00: Use default value	1
594	Image		Photo	PPC	0 <0-99>	SYS		1
595	Image		Text	PPC	0 <0-99>	SYS		1
620	Image	Sharpness adjustment	Text/Photo	PPC	1 <0-99>	SYS	When the value increases, the image becomes sharper. When the value decreases, the image becomes softer. The smaller the value is, the less the moire becomes.One's place: Fixed value (05-620 is "1", 05-621 is "2", 05- 622 is "5") Ten's place: Sharpness intensity (0: Use default value, 1-9: Filter intensity)	1
621			Photo	PPC	2 <0-99>	SYS		1
622			Text	PPC	EUR: 45 UC: 45 JPN: 45 <0-99>	SYS		1
653	Image	Adjustment of smudged/faint text	Text/Photo	PPC	208 <0-255>	SYS	Adjusts the level of the smudged/faint text.With increasing the value, the faint text is suppressed, and with decreasing it, the smudged text is sup- pressed.	1
654	Image	Adjustment of smudged/faint text	PS	PRT	5 <0-9>	SYS	Adjustment of the smudged/faint text.With decreasing the value, the faint text is suppressed, and with increasing it, the smudged text is sup- pressed.	1
655			PCL	PRT	5 <0-9>	SYS		1

Adjustment mode (05) <e-STUDIO350/450>								
Code	Classifi- cation	Items		Func- tion	Default <Accept- able value>	RAM	Contents	Pro- cedur e
672-0	Image	Adjustment of printer image density	Normal	PRT	0 <0-10>	M	Adjustment of the image density.With decreasing the value, the text becomes lighter.	4
672-1				PRT	4 <0-10>	M		4
672-2				PRT	5 <0-10>	M		4
672-3				PRT	6 <0-10>	M		4
672-4				PRT	10 <0-10>	M		4
676-0	Image		Toner saving	PRT	0 <0-10>	M		4
676-1				PRT	4 <0-10>	M		4
676-2				PRT	5 <0-10>	M		4
676-3				PRT	6 <0-10>	M		4
676-4				PRT	10 <0-10>	M		4
693	Image	Range correc- tion on origi- nal set on the RADF	Text/Photo	PPC	EUR: 12 UC: 12 JPN: 22 <11-14, 21-24, 31-34, 41-44>	SYS	Sets whether the val- ues of the background peak and text peak are fixed or not. One's place is an adjustment for "automatic density" and ten's place is for "manual density". Once they are fixed, the range correction is per- formed with standard values. The values of the back- ground peak and text peak affect the repro- duction of the back- ground density and text density respectively. 1: fixed/fixed 2: varied/fixed 3: fixed/varied 4: varied/varied * Background peak/ Text peak	1
694			Photo	PPC	12 <11-14, 21-24, 31-34, 41-44>	SYS		1
695			Text	PPC	22 <11-14, 21-24, 31-34, 41-44>	SYS		1
700	Image	Adjustment of binarized threshold (Text)	Center value	FAX	120 <0-255>	SYS	When the value increases, the image at the center step becomes lighter.	1
701			Light step value	FAX	20 <0-255>	SYS	When the value increases, the image of "light" side becomes lighter.	1
702			Dark step value	FAX	20 <0-255>	SYS	When the value increases, the image of "dark" side becomes darker.	1

Adjustment mode (05) <e-STUDIO350/450>								
Code	Classification	Items		Function	Default <Acceptable value>	RAM	Contents	Procedure
710	Image	Density adjustment Fine adjustment of "manual density"/ Center value	Photo	FAX	128 <0-255>	SYS	When the value increases, the image at the center step becomes darker.	1
714			Text/Photo	FAX	128 <0-255>	SYS		1
715	Image	Density adjustment Fine adjustment of "manual density"/ Light step value	Photo	FAX	20 <0-255>	SYS	When the value increases, the image of the "light" steps becomes lighter.	1
719			Text/Photo	FAX	20 <0-255>	SYS		1
720	Image	Density adjustment Fine adjustment of "manual density"/ Dark step value	Photo	FAX	20 <0-255>	SYS	When the value increases, the image of the "dark" steps becomes darker.	1
724			Text/Photo	FAX	20 <0-255>	SYS		1
725	Image	Density adjustment Fine adjustment of "automatic density"	Photo	FAX	128 <0-255>	SYS	When the value increases, the image becomes darker.	1
729			Text/Photo	FAX	128 <0-255>	SYS		1
825	Image	Range correction on original manually set on the original glass	Text/Photo	SCN	12 <11-14, 21-24, 31-34, 41-44>	SYS	Sets whether the values of the background peak and text peak are fixed or not. One's place is an adjustment for "automatic density" and ten's place is for "manual density". Once they are fixed, the range correction is performed with standard values. The values of the background peak and text peak affect the reproduction of the background density and text density respectively. 1: fixed/fixed 2: varied/fixed 3: fixed/varied 4: varied/varied * Background peak/ Text peak	1
826			Text	SCN	12 <11-14, 21-24, 31-34, 41-44>	SYS		1
827			Photo	SCN	12 <11-14, 21-24, 31-34, 41-44>	SYS		1

Adjustment mode (05) <e-STUDIO350/450>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
830	Image	Range correction on original set on the RADF	Text/Photo	SCN 12 <11-14, 21-24, 31-34, 41-44>	SYS	Sets whether the value of the background peak and text peak are fixed or not. One's place is an adjustment for "automatic density" and ten's place is for "manual density". Once they are fixed, the range correction is performed with standard values. The values of the background peak and text peak affect the reproduction of the background density and text density respectively. 1: fixed/fixed 2: varied/fixed 3: fixed/varied 4: varied/varied * Background peak/ Text peak	1
831			Text	SCN 12 <11-14, 21-24, 31-34, 41-44>	SYS		1
832			Photo	SCN 12 <11-14, 21-24, 31-34, 41-44>	SYS		1
835	Image	Range correction / Background peak adjustment	Text/Photo	SCN 48 <0-255>	SYS	When the value increases, the background becomes more brightened.	1
836			Text	SCN 48 <0-255>	SYS		1
837			Photo	SCN 40 <0-255>	SYS		1
845	Image	Density adjustment Fine adjustment of "manual density" / Center value	Text/Photo	SCN 128 <0-255>	SYS	When the value increases, the image at the center step becomes darker.	1
846			Text	SCN 128 <0-255>	SYS		1
847			Photo	SCN 128 <0-255>	SYS		1
850	Image	Density adjustment Fine adjustment of "manual density" / Light step value	Text/Photo	SCN 20 <0-255>	SYS	When the value increases, the image of the "light" steps becomes lighter.	1
851			Text	SCN 20 <0-255>	SYS		1
852			Photo	SCN 20 <0-255>	SYS		1
855	Image	Density adjustment Fine adjustment of "manual density" / adjustment / Dark step value	Text/Photo	SCN 20 <0-255>	SYS	When the value increases, the image of the "dark" steps becomes darker.	1
856			Text	SCN 20 <0-255>	SYS		1
857			Photo	SCN 20 <0-255>	SYS		1
860	Image	Density adjustment Fine adjustment of "automatic density"	Text/Photo	SCN 128 <0-255>	SYS	When the value increases, the image becomes darker.	1
861			Text	SCN 128 <0-255>	SYS		1
862			Photo	SCN 128 <0-255>	SYS		1

Adjustment mode (05) <e-STUDIO350/450>								
Code	Classifi- cation	Items		Func- tion	Default <Accept- able value>	RAM	Contents	Pro- cedur e
865-0	Image	Sharpnessad- justment(Text/ Photo)	Reproduc- tion ratio 40% or smaller	SCN	1 <0-99>	SYS	When the value increases, the image becomes sharper. When the value decreases, the image becomes softer. The smaller the value is, the less the moire becomes. One's place: Fixed value (05-865 is "1", 05-866 is "2", 05-867 is "5") Ten's place: Sharp- ness intensity (0: Use default value, 1-9: Filter intensity)	4
865-1			Reproduc- tion ratio 41-80%	SCN	1 <0-99>	SYS		4
865-2			Reproduc- tion ratio 81% or larger	SCN	1 <0-99>	SYS		4
866-0	Image	Sharpnessad- justment(Text)	Reproduc- tion ratio 40% or smaller	SCN	2 <0-99>	SYS		4
866-1			Reproduc- tion ratio 41-80%	SCN	2 <0-99>	SYS		4
866-2			Reproduc- tion ratio 81% or larger	SCN	2 <0-99>	SYS		4
867-0	Image	Sharpnessad- just- ment(Photo)	Reproduc- tion ratio 40% or smaller	SCN	5 <0-99>	SYS		4
867-1			Reproduc- tion ratio 41-80%	SCN	5 <0-99>	SYS		4
867-2			Reproduc- tion ratio 81% or larger	SCN	5 <0-99>	SYS		4
913	Image	Range correc- tion on origi- nal manually set on the original glass	Custom Mode 1	PPC	EUR: 12 UC: 12 JPN: 22 <11-14, 21-24, 31-34, 41-44>	SYS	Set whether the values of the background peak and text peak are fixed or not. One's place is an adjustment for "automatic density" and ten's place is for "man- ual density". Once they are fixed, the range correction is per- formed with standard values. The values of the back- ground peak and text peak affect the repro- duction of the back- ground density and text density respectively. 1: fixed/fixed 2: varied/fixed 3: fixed/varied 4: varied/varied * Background peak/ Text peak	1
914	Image		Custom Mode 2	PPC	22 <11-14, 21-24, 31-34, 41-44>	SYS		1
915	Image		Custom Mode 3	PPC	12 <11-14, 21-24, 31-34, 41-44>	SYS		1

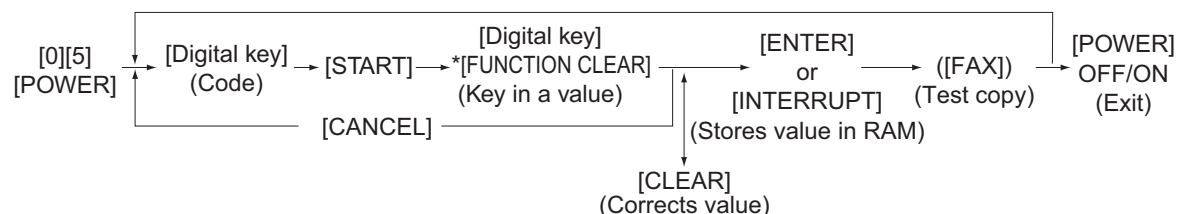
Adjustment mode (05) <e-STUDIO350/450>								
Code	Classifi- cation	Items		Func- tion	Default <Accept- able value>	RAM	Contents	Pro- cedur e
916	Image	Range correc- tion on origi- nal set on the RADF	Custom Mode 1	PPC	EUR: 12 UC: 12 JPN: 22 <11-14, 21-24, 31-34, 41-44>	SYS	Set whether the values of the background peak and text peak are fixed or not. One's place is an adjustment for “automatic density” and ten's place is for “man- ual density”. Once they are fixed, the range correction is per- formed with standard values.  The values of the back- ground peak and text peak affect the repro- duction of the back- ground density and text density respectively. 1: fixed/fixed 2: varied/fixed 3: fixed/varied 4: varied/varied * Background peak/ Text peak	1
917	Image		Custom Mode 2	PPC	22 <11-14, 21-24, 31-34, 41-44>	SYS		1
918	Image		Custom Mode 3	PPC	12 <11-14, 21-24, 31-34, 41-44>	SYS		1
919	Image	Range correc- tion Back- ground peak adjustment	Custom Mode 1	PPC	40 <0-255>	SYS	When the value increases, the back- ground becomes more brightened.	1
920	Image		Custom Mode 2	PPC	64 <0-255>	SYS		1
921	Image		Custom Mode 3	PPC	16 <0-255>	SYS		1
922	Image	Sharpness adjustment	Custom Mode 1	PPC	1 <0-99>	SYS	When the value increases, the image becomes sharper. When the value decreases, the image becomes softer. The smaller the value is, the less the moire becomes. One's place: Fixed value (05-922 is "1", 05-923 is "5", 05-924 is "2")Ten's place: Sharp- ness intensity(0: Use default value, 1-9: Filter intensity)	1
923	Image		Custom Mode 2	PPC	EUR: 45 UC: 45 JPN: 45 <0-99>	SYS		1
924	Image		Custom Mode 3	PPC	2 <0-99>	SYS		1
928	Image	Adjustment of smudged/faint text	Custom Mode 1	PPC	208 <0-255>	SYS	Adjustment of the smudged/faint text. With increasing the value, the faint text is suppressed, and with decreasing it, the smudged text is sup- pressed.	1

Adjustment mode (05) <e-STUDIO350/450>								
Code	Classification	Items		Function	Default <Acceptable value>	RAM	Contents	Procedure
931	Image	Density adjustment	Custom Mode 1	PPC	128 <0-255>	SYS	When the value increases, the image of the center step becomes darker.	1
932	Image	Fine adjustment of "manual density"/ Center value	Custom Mode 2	PPC	128 <0-255>	SYS		1
933	Image		Custom Mode 3	PPC	128 <0-255>	SYS		1
934	Image	Density adjustment	Custom Mode 1	PPC	20 <0-255>	SYS	When the value increases, the image of the "light" step density becomes lighter.	1
935		Fine adjustment of "manual density"/ Light step value	Custom Mode 2	PPC	20 <0-255>	SYS		1
936			Custom Mode 3	PPC	20 <0-255>	SYS		1
937	Image	Density adjustment	Custom Mode 1	PPC	20 <0-255>	SYS	When the value increases, the image of the "Dark" step density becomes lighter.	1
938		Fine adjustment of "manual density"/ Dark step value	Custom Mode 2	PPC	20 <0-255>	SYS		1
939			Custom Mode 3	PPC	20 <0-255>	SYS		1
940	Image	Density adjustment	Custom Mode 1	PPC	128 <0-255>	SYS	When the value increases, the image becomes darker.	1
941		Fine adjustment of "automatic density"	Custom Mode 2	PPC	128 <0-255>	SYS		1
942			Custom Mode 3	PPC	128 <0-255>	SYS		1
943	Image	Gamma data slope adjustment	Custom Mode 1	PPC	0 <0-99>	SYS	One's place: 0: Equivalent to the set value 5 1 to 9: Select the slope of Gammacurve (The larger the value is, the larger the slope becomes.) Ten's place: 0: Equivalent to the set value 5 1 to 9: Select the slope of low density (The smaller the value is, the darker the background becomes.) 00: Use default value	1
944			Custom Mode 2	PPC	0 <0-99>	SYS		1
945			Custom Mode 3	PPC	0 <0-99>	SYS		1
976	Maintenance	Equipment number (serial number) entry		ALL	-	SYS	When this adjustment is performed with this code, the setting code (08-995) is also performed automatically (10 digits)	1

## 2.2.6 Adjustment mode (05) (e-STUDIO352/353/452/453)

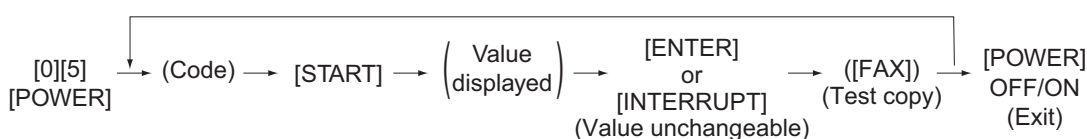
Items in the adjustment mode list in the following pages can be corrected or changed in the adjustment mode (05). Turn ON the power with pressing the digital keys [0] and [5] simultaneously in order to enter this mode.

### Procedure 1

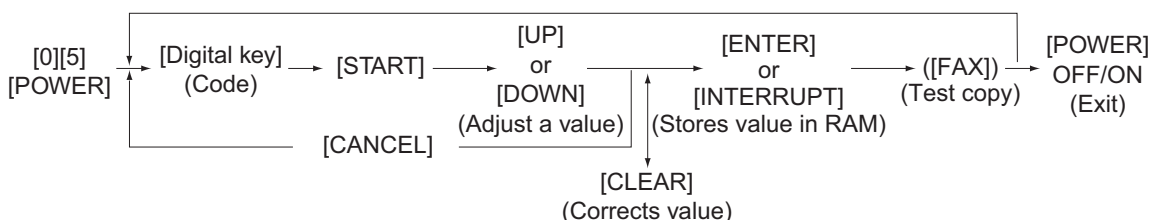


\* Press [FUNCTION CLEAR] to enter minus (-).

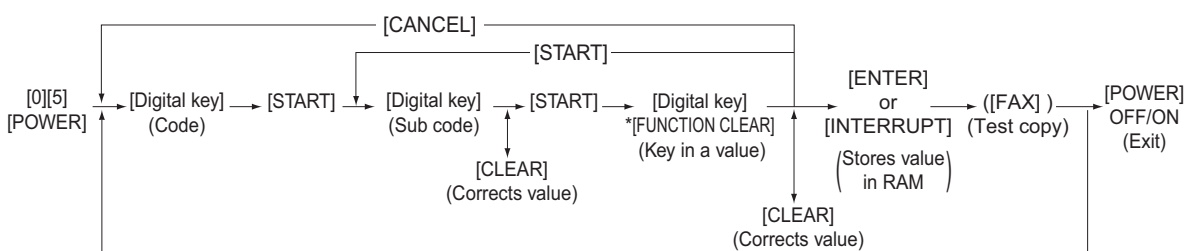
### Procedure 2



### Procedure 3

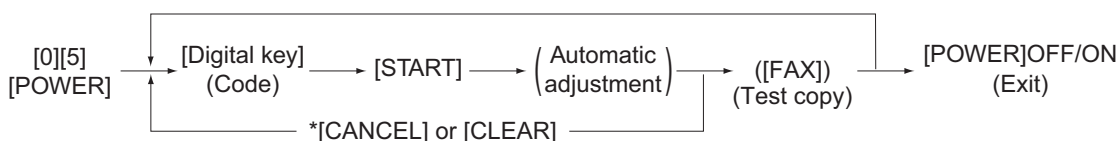


### Procedure 4



\* Press [FUNCTION CLEAR] to enter minus (-).

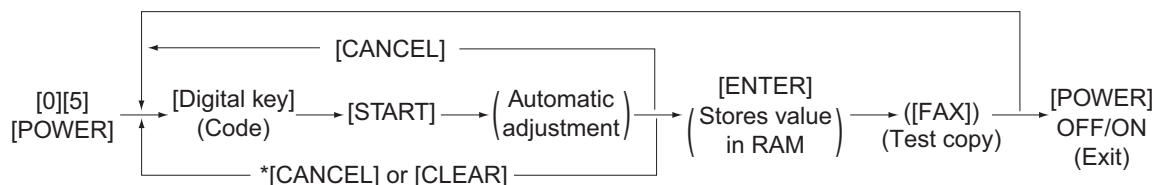
### Procedure 6



\* When the automatic adjustment ends abnormally, error message is displayed.

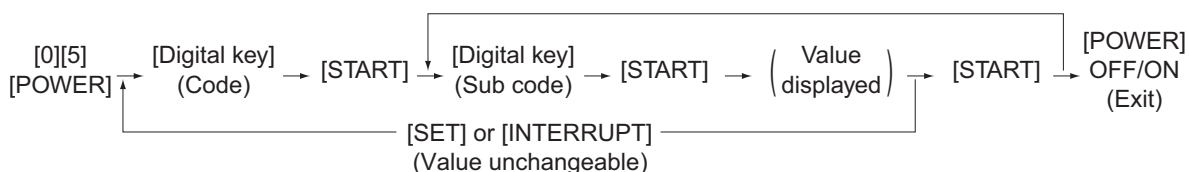


## Procedure 7

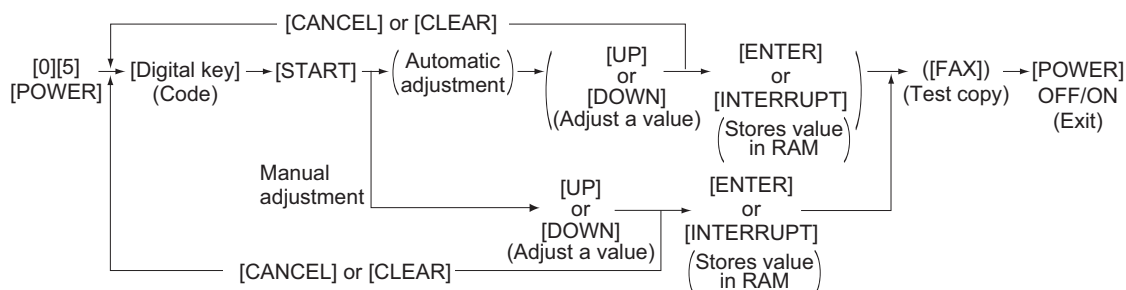


\* When the automatic adjustment ends abnormally, error message is displayed.

## Procedure 10



## Procedure 17



\* When the "storing" is not performed within 2 minutes after pressing the [START] button at the manual adjustment, the "automatic adjustment" starts automatically.

**Note:**

The fuser roller temperature control at the adjustment mode is different from that at the normal state. Therefore, the problem of fusing efficiency may be occurred in the test copy at the adjustment mode. In that case, turn ON the power normally, leave the equipment for approx. 3 minutes after it has become ready state and then start up the adjustment mode again.

**Test print pattern in Adjustment Mode (05)**

Operation:

One test print is printed out when the [FAX] button is pressed after the code is keyed in at Standby Screen.

Code	Types of test pattern	Remarks
1	Grid pattern	Refer to  P. 3-7 "3.2.3 Printer related adjustment"
3	Grid pattern (Duplex printing)	Refer to  P. 3-7 "3.2.3 Printer related adjustment"

**Notes:**

1. The digit after the hyphen in "Code" of the following table is a sub code.
2. In "RAM", the NVRAM of the board in which the data of each code is stored is indicated. "M" stands for the LGC board and "SYS" stands for the SYS board.

Adjustment mode (05) <e-STUDIO352/353/452/453>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
200	Developer	Automatic adjustment of auto-toner sensor (Fuser-heater ON)	ALL	-	-	As the value increases, the sensor output increases correspondingly. The value starts changing approx. 2 minutes after this adjustment was started and is automatically set in the range of 2.35 to 2.45V. * Selection is disable when developer unit is not installed. (P. 3-1)	17
201	Developer	Correction of auto-toner sensor (Fuser heater ON)	ALL	128 <0-255>	M	Corrects the control value of the auto-toner sensor setup in 05-200. * Selection is disable when developer unit is not installed.	3
205	Developer	Developer bias DC output-adjustment	ALL	189 <0-255>	M	As the value increases, the transformer output increases correspondingly. Remove the developer unit and install the adjustment jig to make adjustment. However, the adjustment jig is not necessary to adjust the developer bias DC.(P. 3-29)	3
210	Charger	Main charger grid bias output adjustment	ALL	154 <0-255>	M		3
221	Transfer	Transfer transformer DC output adjustment/Center value	ALL	115 <0-255>	M		3
231	Separation	Separation transformer AC output adjustment/Center value	ALL	166 <0-255>	M		3
286	Laser	Laser power adjustment	ALL	121 <0-255>	M	When the value increases, the laser output increases correspondingly.	3
305	Scanner	Image location adjustment of secondary scanning direction (scanner section)	ALL	128 <92-164>	SYS	When the value increases by "1", the image shifts by approx. 0.137mm toward the trailing edge of the paper.	1
306	Scanner	Image location adjustment of primary scanning direction (scanner section)	ALL	145 <0-255>	SYS	When the value increases by "1", the image shifts by approx. 0.0846mm toward the front side of the paper.	1
308	Scanner	Distortion mode	ALL	-	-	Moves carriages to the adjusting position. (P. 3-12)	6

Adjustment mode (05) <e-STUDIO352/353/452/453>								
Code	Classifi- cation	Items		Func- tion	Default <Accept- able value>	RAM	Contents	Pro- cedur e
340	Scanner	Reproduction ratio adjust- ment of secondary scan- ning direction (scanner section)		ALL	128 <0-255>	SYS	When the value increases by “1”, the reproduction ratio in the secondary scan- ning direction (vertical to paper feeding direc- tion) increases by approx. 0.223%.	1
350	Scanner	Shading posi- tion adjust- ment	Original glass	ALL	128 <118- 138>	SYS	0.1369 mm/step	1
351			RADF	ALL	128 <118- 138>	SYS		1
354	RADF	Adjustment of RADF paper alignment	for single- sidedorigi- nal	ALL	10 <0-20>	SYS	When the value increases by “1”, the aligning amount increases by approx. 0.5mm.	1
355			for double- sidedorigi- nal	ALL	10 <0-20>	SYS		1
357	RADF	Fine adjustment of RADF transport speed		ALL	50 <0-100>	SYS	When the value increases by “1”, the reproduction ratio of the secondary scan- ning direction when using the RADF increases by approx. 0.1%.	1
358	RADF	RADF sideways deviation adjustment		ALL	128 <0-255>	SYS	When the value increases by “1”, the image of original fed from the RADF shifts toward the rear side of paper by approx. 0.0846mm.	1
359	Scanner	Carriage position adjust- ment during scanning from RADF		ALL	128 <0-255>	SYS	When the value increases by “1”, the carriage position when using the RADF shifts by approx. 0.1 mm toward the original feeding side.	1
365	RADF	RADF lead- ing edge posi- tion adjustment	for single sided origi- nal	ALL	50 <0-100>	SYS	When the value increases by “1”, the copied image of origi- nal fed from the RADF shifts toward the trailing edge of paper by approx. 0.1mm.	1
366			for double sided origi- nal	ALL	50 <0-100>	SYS		1
401	Laser	Fine adjustment of polygo- nal motor rotation speed (adjustment of primary scanning direction repro- duction ratio)		PRT	133 <0-255>	M	When the value increases by “1”, the reproduction ratio of primary scanning direc- tion increases by approx. 0.07%. (approx. 0.1mm/step)	1
405				PPC	129 <0-255>	M		

Adjustment mode (05) <e-STUDIO352/353/452/453>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
410	Laser	Adjustment of primary scanning laser writing start position.	PPC	128 <0-255>	M	When the value increases by "1", the writing start position shifts to the front side by approx. 0.0423mm.	1
411			PRT	128 <0-255>	M		
421	Drive	Adjustment of secondary scanning direction reproduction ratio (fine adjustment of main motor speed)	PPC/ PRT	138 <0-255>	M	When the value increases by "1", the reproduction ratio of secondary scanning direction increases by approx. 0.04%.	1
422			FAX	139 <0-255>	M		
424	Drive	Fine adjustment of exit motor speed	PPC/ PRT	107 <0-255>	M	When the value increases by "1", the rotation becomes faster by approx. 0.05%.	1
425			FAX	121 <0-255>	M		
430	Image	Top margin adjustment (blank area at the leading edge of the paper)	PPC	0 <0-255>	M	When the value increases by "1", the blank area becomes wider by approx. 0.0423mm.	1
431	Image	Left margin adjustment (blank area at the left of the paper along the paper feeding direction)	PPC	0 <0-255>	M		1
432	Image	Right margin adjustment (blank area at the right of the paper along the paper feeding direction)	PPC	0 <0-255>	M	When the value increases by "1", the blank area becomes wider by approx. 0.0423 mm.	1
433	Image	Bottom margin adjustment (blank area at the trailing edge of the paper)	PPC	0 <0-255>	M		1
434-0	Image	Bottom margin adjustment (blank area at the trailing edge of the paper)/ Reverse side at duplexing	PPC/ PRT	EUR: 48 UC:24 JPN: 24 Others: 48 <0-255>	M		4
434-1	Image	Right margin adjustment (blank area at the right of the paper along the paper feeding direction)/Reverse side at duplexing	PPC/ PRT	12 <0-255>	M		4
435	Image	Top margin adjustment (blank area at the leading edge of the paper)	PRT	24 <0-255>	M		1
436	Image	Left margin adjustment (blank area at the left of the paper along the paper feeding direction)	PRT	0 <0-255>	M		1
437	Image	Right margin adjustment (blank area at the right of the paper along the paper feeding direction)	PRT	0 <0-255>	M		1
438	Image	Bottom margin adjustment (blank area at the trailing edge of the paper)	PRT	0 <0-255>	M		1

Adjustment mode (05) <e-STUDIO352/353/452/453>								
Code	Classifi- cation	Items		Func- tion	Default <Accept- able value>	RAM	Contents	Pro- cedur e
440	Laser	Adjustment of secondary scanning laser writing start position	Upper drawer	ALL	7 <0-15>	M	When the value increases by “1”, the image shifts toward the leading edge of the paper by approx. 0.2mm.	1
441			Lower drawer	ALL	24 <0-40>	M		1
442			Bypass feeding	ALL	8 <0-15>	M		1
443			LCF	ALL	8 <0-15>	M		1
444			PFP	ALL	8 <0-15>	M		1
445			Duplex feeding	ALL	8 <0-15>	M		1
448-0	Paper feeding	Paper aligning amount adjustment at the registra- tion section (PFP upper drawer / Plain paper)	Long size	ALL	10 <0-63>	M	When the value increases by “1”, the aligning amount increases by approx. 0.8 mm. <Paper length> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter	4
448-1			Middle size	ALL	10 <0-63>	M		4
448-2			Short size 1	ALL	8 <0-63>	M		4
449-0	Paper feeding	Paper aligning amount adjustment at the registra- tion section (PFP lower drawer / Plain paper)	Long size	ALL	10 <0-63>	M		4
449-1			Middle size	ALL	10 <0-63>	M		4
449-2			Short size	ALL	8 <0-63>	M		4
450-0	Paper feeding	Paper aligning amount adjustment at the registra- tion section (Upper drawer / Plain paper)	Long size	ALL	17 <0-63>	M		4
450-1			Middle size	ALL	17 <0-63>	M		4
450-2			Short size	ALL	17 <0-63>	M		4
452-0	Paper feeding	Paper aligning amount adjustment at the registra- tion section (Lower drawer / Plain paper)	Long size	ALL	12 <0-63>	M		4
452-1			Middle size	ALL	10 <0-63>	M		4
452-2			Short size	ALL	10 <0-63>	M		4
455-0	Paper feeding	Paper aligning amount adjustment at the registra- tion section (Duplex feed- ing / Plain paper)	Long size	ALL	20 <0-63>	M		4
455-1			Middle size	ALL	20 <0-63>	M		4
455-2			Short size	ALL	30 <0-63>	M		4
457	Paper feeding	Paper aligning amount adjustment at the registra- tion section (LCF / Plain paper)		ALL	8 <0-63>	M		1

Adjustment mode (05) <e-STUDIO352/353/452/453>								
Code	Classifi- cation	Items		Func- tion	Default <Accept- able value>	RAM	Contents	Pro- cedur e
458-0	Paper feeding	Paper aligning amount adjustment at the registra- tion section (Bypass feed- ing/Plain paper)	Long size	ALL	26 <0-63>	M	When the value increases by “1”, the aligning amount increases by approx. 0.8 mm. <Paper length> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter * Postcard is sup- ported only for JPN model.	4
458-1			Middle size	ALL	26 <0-63>	M		4
458-2			Short size	ALL	25 <0-63>	M		4
460-0	Paper feeding	Paper aligning amount adjustment at the registra- tion section (Bypass feed- ing/Thick paper 1)	Long size	ALL	26 <0-63>	M		4
460-1			Middle size	ALL	26 <0-63>	M		4
460-2			Short size	ALL	26 <0-63>	M		4
461-0	Paper feeding	Paper aligning amount adjustment at the registra- tion section (Bypass feed- ing/Thick paper 2)	Long size	ALL	17 <0-63>	M		4
461-1			Middle size	ALL	17 <0-63>	M		4
461-2			Short size	ALL	17 <0-63>	M		4
462-0	Paper feeding	Paper aligning amount adjustment at the registra- tion section (Bypass feed- ing/Thick paper 3)	Long size	ALL	17 <0-63>	M		4
462-1			Middle size	ALL	17 <0-63>	M		4
462-2			Short size	ALL	17 <0-63>	M		4
462-3			Post card	ALL	14 <0-63>	M		4
463-0	Paper feeding	Paper aligning amount adjustment at the registra- tion section (Bypass feed- ing/OHP film)	Long size	ALL	26 <0-63>	M		4
463-1			Middle size	ALL	26 <0-63>	M		4
463-2			Short size	ALL	26 <0-63>	M		4
466-0	Paper feeding	Adjustment of paper push- ing amount / Bypass feed- ing	Plain paper	ALL	143 <0-255>	M	When the value increases by “1”, the driving speed of bypass feed roller increases by approx. 0.2 ms when the paper transport is started from the regis- tration section. * Post card is sup- ported only for JPN model.	4
466-1			Post card	ALL	173 <0-255>	M		4
466-4			Thick paper 1	ALL	143 <0-255>	M		4
466-5			Thick paper 2	ALL	143 <0-255>	M		4
466-6			Thick paper 3	ALL	143 <0-255>	M		4
466-7			OHP film	ALL	128 <0-255>	M		4

Adjustment mode (05) <e-STUDIO352/353/452/453>								
Code	Classifi- cation	Items		Func- tion	Default <Accept- able value>	RAM	Contents	Pro- cedur e
467	Paper feeding	Adjustment of paper push- ing amount/Duplex feed- ing (short size)		ALL	128 <0-255>	M	When the value increases by “1”, the driving speed of ADU transport roller increases by approx. 0.2 ms when the paper transport is started from the registration section.	1
468-0	Finisher	Fine adjust- ment of bind- ing position/ folding posi- tion	A4-R/LT-R	ALL	0 <-14-14>	M	When the value increases by “1”, the binding/folding position shifts toward the right page by 0.25 mm.	4
468-1			B4	ALL	0 <-14-14>	M		4
468-2			A3/LD	ALL	0 <-14-14>	M		4
469-0	Paper feeding	Paper aligning amount adjustment at the registra- tion section (Upper drawer)	Thick Paper 1 Long size	ALL	20 <0-63>	M	When the value increases by "1", the aligning amount increases by approx. 0.8 mm. <Paper length> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter	4
469-1			Thick Paper 1 Middle size	ALL	20 <0-63>	M		4
469-2			Thick Paper 1 Short size	ALL	20 <0-63>	M		4
469-3			Thick Paper 2 Long size	ALL	20 <0-63>	M		4
469-4			Thick Paper 2 Middle size	ALL	22 <0-63>	M		4
469-5			Thick Paper 2 Short size	ALL	19 <0-63>	M		4
470-0	Paper feeding	Paper aligning amount adjustment at the registra- tion section (Lower drawer / Thick paper 1)	Long size	ALL	20 <0-63>	M		4
470-1			Middle size	ALL	22 <0-63>	M		4
470-2			Short size	ALL	19 <0-63>	M		4
471-0	Paper feeding	Paper aligning amount adjustment at the registra- tion section (PFP upper drawer / Thick paper 1)	Long size	ALL	20 <0-63>	M		4
471-1			Middle size	ALL	22 <0-63>	M		4
471-2			Short size	ALL	19 <0-63>	M		4

Adjustment mode (05) <e-STUDIO352/353/452/453>								
Code	Classification	Items		Function	Default <Acceptable value>	RAM	Contents	Procedure
472-0	Paper feeding	Paper aligning amount adjustment at the registration section (PFP lower drawer / Thick paper 1)	Long size	ALL	20 <0-63>	M	When the value increases by "1", the aligning amount increases by approx. 0.8 mm. <Paper length> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter	4
472-1			Middle size	ALL	22 <0-63>	M		4
472-2			Short size	ALL	19 <0-63>	M		4
473	Paper feeding	Paper aligning amount adjustment at the registration section (LCF / Thick paper 1)		ALL	8 <0-63>	M		1
474-0	Paper feeding	Paper aligning amount adjustment at the registration section (Duplex feeding / Thick paper 1)	Long size	ALL	24 <0-63>	M		4
474-1			Middle size	ALL	24 <0-63>	M		4
474-2			Short size	ALL	33 <0-63>	M		4
497-0	Laser	Adjustment of drawer side-ways deviation	Upper drawer	ALL	128 <0-255>	M	When the value increases by "1", the image shifts toward the front side by 0.0423 mm.	4
497-1			Lower drawer	ALL	128 <0-255>	M		4
497-2			PFP upper drawer	ALL	128 <0-255>	M		4
497-3			PFP lower drawer	ALL	128 <0-255>	M		4
497-4			LCF	ALL	128 <0-255>	M		4
497-5			Bypass feeding	ALL	128 <0-255>	M		4
498-0	Laser	Adjustment of primary scanning laser writing start position at duplex feeding	Long size	ALL	148 <0-255>	M	When the value increases by "1", the image shifts toward the front side by 0.0423 mm.	4
498-1			Short size(A4/LT or smaller)	ALL	148 <0-255>	M		4
501	Image	Density adjustment Fine adjustment of "manual density" /Center value	Photo	PPC	128 <0-255>	SYS	When the value increases, the image at the center step becomes darker.	1
503			Text/Photo	PPC	128 <0-255>	SYS		1
504			Text	PPC	128 <0-255>	SYS		1
505	Image	Density adjustment Fine adjustment of "manual density" /Light step value	Text/Photo	PPC	20 <0-255>	SYS	When the value increases, the image of the "light" steps becomes lighter.	1
506			Photo	PPC	20 <0-255>	SYS		1
507			Text	PPC	20 <0-255>	SYS		1



Adjustment mode (05) <e-STUDIO352/353/452/453>								
Code	Classifi- cation	Items		Func- tion	Default <Accept- able value>	RAM	Contents	Pro- cedur e
508	Image	Density adjustment Fine adjust- ment of “man- ual density” /Dark step value	Text/Photo	PPC	EUR: 20 UC: 20 JPN : 30 <0-255>	SYS	When the value increases, the image of the “dark” steps becomes darker.	1
509			Photo	PPC	EUR: 24 UC: 24 JPN: 24 <0-255>	SYS		1
510			Text	PPC	EUR: 20 UC: 20 JPN: 27 <0-255>	SYS		1
512	Image	Density adjustment Fine adjust- ment of “auto- matic density”	Photo	PPC	128 <0-255>	SYS	When the value increases, the image becomes darker.	1
514			Text/Photo	PPC	128 <0-255>	SYS		1
515			Text	PPC	128 <0-255>	SYS		1
532	Image	Range correc- tion / Back- ground peak adjustment	Text/Photo	PPC	40 <0-255>	SYS	When the value increases, the back- ground becomes more brightened.	1
533			Photo	PPC	16 <0-255>	SYS		1
534			Text	PPC	64 <0-255>	SYS		1
570	Image	Range correc- tion on origi- nal manually set on the original glass	Text/Photo	PPC	EUR: 12 UC: 12 JPN: 22 <11-14, 21-24, 31-34, 41-44>	SYS	Sets whether the val- ues of the background peak and text peak are fixed or not. One’s place is an adjustment for “automatic density” and ten’s place is for “manual density”. Once they are fixed, the range correction is per- formed with standard values. The values of the background peak and text peak affect the reproduction of the background density and text density respectively. Background peak Text peak 1: fixed/fixed 2: varied/fixed 3: fixed/varied 4: varied	1
571			Photo	PPC	12 <11-14, 21-24, 31-34, 41-44>	SYS		1
572			Text	PPC	22 <11-14, 21-24, 31-34, 41-44>	SYS		1

Adjustment mode (05) <e-STUDIO352/353/452/453>								
Code	Classification	Items		Function	Default <Acceptable value>	RAM	Contents	Pro- cedure
593	Image	Gamma data slope adjust- ment	Text/Photo	PPC	0 <0-99>	SYS	One's place: 0: Equivalent to the set value 5 1 to 9: Select the slope of Gamma curve (The larger the value is, the larger the slope becomes.) Ten's place: 0: Equivalent to the set value 5 1 to 9: Select the slope of low density (The smaller the value is, the darker the back- ground becomes.) 00: Use default value	1
594	Image		Photo	PPC	0 <0-99>	SYS		1
595	Image		Text	PPC	0 <0-99>	SYS		1
596-0	Image	Gamma bal- ance adjust- ment (PS/Photo)	Low density	PRT	128 <0-255>	SYS	When the value increases, the density in the target area becomes higher.	4
596-1	Image		Medium density	PRT	128 <0-255>	SYS		4
596-2	Image		High density	PRT	128 <0-255>	SYS		4
597-0	Image	Gamma bal- ance adjust- ment (PS/Text)	Low density	PRT	128 <0-255>	SYS	When the value increases, the density in the target area becomes higher.	4
597-1	Image		Medium density	PRT	128 <0-255>	SYS		4
597-2	Image		High density	PRT	128 <0-255>	SYS		4
598-0	Image	Gamma bal- ance adjust- ment (PCL/Photo)	Low density	PRT	128 <0-255>	SYS	When the value increases, the density in the target area becomes higher.	4
598-1	Image		Medium density	PRT	128 <0-255>	SYS		4
598-2	Image		High density	PRT	128 <0-255>	SYS		4
599-0	Image	Adjustment of gamma bal- ance (PCL/Detail)	Low density	PRT	128 <0-255>	SYS	When the value increases, the density in the target area becomes higher.	4
599-1	Image		Medium density	PRT	128 <0-255>	SYS		4
599-2	Image		High density	PRT	128 <0-255>	SYS		4
620	Image	Sharpness adjustment	Text/Photo	PPC	1 <0-99>	SYS	When the value increases, the image becomes sharper. When the value decreases, the image becomes softer. The smaller the value is, the less the moire becomes. One's place: Fixed value (05-620 is "1", 05-621 is "2", 05- 622 is "5") Ten's place: Sharpness intensity (0: Use default value, 1-9: Filter intensity)	1
621			Photo	PPC	2 <0-99>	SYS		1
622			Text	PPC	EUR: 45 UC: 45 JPN: 45 <0-99>	SYS		1

Adjustment mode (05) <e-STUDIO352/353/452/453>								
Code	Classifi- cation	Items		Func- tion	Default <Accept- able value>	RAM	Contents	Pro- cedur e
648	Image	Adjustment of smudged/faint text	Text/Photo	PPC	208 <0-255>	SYS	Adjusts the level of the smudged/faint text.With increasing the value, the faint text is suppressed, and with decreasing it, the smudged text is sup- pressed.	1
654	Image	Adjustment of smudged/faint text	PS	PRT	5 <0-9>	SYS	Adjustment of the smudged/faint text.With decreasing the value, the faint text is suppressed, and with increasing it, the smudged text is sup- pressed.	1
655			PCL	PRT	5 <0-9>	SYS		1
672-0	Image	Adjustment of printer image density	Normal	PRT	0 <0-10>	M	Adjustment of the image density.With decreasing the value, the text becomes lighter.	4
672-1				PRT	4 <0-10>	M		4
672-2				PRT	5 <0-10>	M		4
672-3				PRT	6 <0-10>	M		4
672-4				PRT	10 <0-10>	M		4
676-0	Image		Toner saving	PRT	0 <0-10>	M		4
676-1				PRT	4 <0-10>	M		4
676-2				PRT	5 <0-10>	M		4
676-3				PRT	6 <0-10>	M		4
676-4				PRT	6 <0-10>	M		4

Adjustment mode (05) <e-STUDIO352/353/452/453>								
Code	Classification	Items		Function	Default <Acceptable value>	RAM	Contents	Procedure
693	Image	Range correction on original set on the RADF	Text/Photo	PPC	EUR: 12 UC: 12 JPN: 22 <11-14, 21-24, 31-34, 41-44>	SYS	Sets whether the values of the background peak and text peak are fixed or not. One's place is an adjustment for "automatic density" and ten's place is for "manual density". Once they are fixed, the range correction is performed with standard values. The values of the background peak and text peak affect the reproduction of the background density and text density respectively. 1: fixed/fixed 2: varied/fixed 3: fixed/varied 4: varied/varied * Background peak/ Text peak	1
694			Photo	PPC	12 <11-14, 21-24, 31-34, 41-44>	SYS		1
695			Text	PPC	22 <11-14, 21-24, 31-34, 41-44>	SYS		1
700	Image	Adjustment of binarized threshold (Text)	Center value	FAX	120 <0-255>	SYS	When the value increases, the image at the center step becomes lighter.	1
701			Light step value	FAX	20 <0-255>	SYS	When the value increases, the image of "light" side becomes lighter.	1
702			Dark step value	FAX	20 <0-255>	SYS	When the value increases, the image of "dark" side becomes darker.	1
710	Image	Density adjustment Fine adjustment of "manual density"/ Center value	Photo	FAX	128 <0-255>	SYS	When the value increases, the image at the center step becomes darker.	1
714			Text/Photo	FAX	128 <0-255>	SYS		1
715	Image	Density adjustment Fine adjustment of "manual density"/ Light step value	Photo	FAX	20 <0-255>	SYS	When the value increases, the image of the "light" steps becomes lighter.	1
719			Text/Photo	FAX	20 <0-255>	SYS		1
720	Image	Density adjustment Fine adjustment of "manual density"/ Dark step value	Photo	FAX	20 <0-255>	SYS	When the value increases, the image of the "dark" steps becomes darker.	1
724			Text/Photo	FAX	20 <0-255>	SYS		1

Adjustment mode (05) <e-STUDIO352/353/452/453>								
Code	Classifi- cation	Items		Func- tion	Default <Accept- able value>	RAM	Contents	Pro- cedur e
725	Image	Density adjustment Fine adjust- ment of “auto- matic density	Photo	FAX	128 <0-255>	SYS	When the value increases, the image becomes darker.	1
729			Text/Photo	FAX	128 <0-255>	SYS		1
825	Image	Range correc- tion on origi- nal manually set on the original glass	Text/Photo	SCN	12 <11-14, 21-24, 31-34, 41-44>	SYS	Sets whether the val- ues of the background peak and text peak are fixed or not. One’s place is an adjustment for “automatic density” and ten’s place is for “manual density”. Once they are fixed, the range correction is per- formed with standard values. The values of the back- ground peak and text peak affect the repro- duction of the back- ground density and text density respectively. 1: fixed/fixed 2: varied/fixed 3: fixed/varied 4: varied/varied * Background peak/ Text peak	1
826			Text	SCN	12 <11-14, 21-24, 31-34, 41-44>	SYS		1
827			Photo	SCN	12 <11-14, 21-24, 31-34, 41-44>	SYS		1
830	Image	Range correc- tion on origi- nal set on the RADF	Text/Photo	SCN	12 <11-14, 21-24, 31-34, 41-44>	SYS	Sets whether the value of the background peak and text peak are fixed or not. One’s place is an adjustment for “automatic density” and ten’s place is for “man- ual density”. Once they are fixed, the range correction is per- formed with standard values. The values of the back- ground peak and text peak affect the repro- duction of the back- ground density and text density respectively. 1: fixed/fixed 2: varied/fixed 3: fixed/varied 4: varied/varied * Background peak/ Text peak	1
831			Text	SCN	12 <11-14, 21-24, 31-34, 41-44>	SYS		1
832			Photo	SCN	12 <11-14, 21-24, 31-34, 41-44>	SYS		1

Adjustment mode (05) <e-STUDIO352/353/452/453>								
Code	Classification	Items		Function	Default <Acceptable value>	RAM	Contents	Procedure
835	Image	Range correction / Background peak adjustment	Text/Photo	SCN	48 <0-255>	SYS	When the value increases, the background becomes more brightened.	1
836			Text	SCN	48 <0-255>	SYS		1
837			Photo	SCN	40 <0-255>	SYS		1
845	Image	Density adjustment Fine adjustment of "manual density" / Center value	Text/Photo	SCN	128 <0-255>	SYS	When the value increases, the image at the center step becomes darker.	1
846			Text	SCN	128 <0-255>	SYS		1
847			Photo	SCN	128 <0-255>	SYS		1
850	Image	Density adjustment Fine adjustment of "manual density" / Light step value	Text/Photo	SCN	20 <0-255>	SYS	When the value increases, the image of the "light" steps becomes lighter.	1
851			Text	SCN	20 <0-255>	SYS		1
852			Photo	SCN	20 <0-255>	SYS		1
855	Image	Density adjustment Fine adjustment of "manual density" / adjustment / Dark step value	Text/Photo	SCN	20 <0-255>	SYS	When the value increases, the image of the "dark" steps becomes darker.	1
856			Text	SCN	20 <0-255>	SYS		1
857			Photo	SCN	20 <0-255>	SYS		1
860	Image	Density adjustment Fine adjustment of "automatic density"	Text/Photo	SCN	128 <0-255>	SYS	When the value increases, the image becomes darker.	1
861			Text	SCN	128 <0-255>	SYS		1
862			Photo	SCN	128 <0-255>	SYS		1

Adjustment mode (05) <e-STUDIO352/353/452/453>								
Code	Classifi- cation	Items		Func- tion	Default <Accept- able value>	RAM	Contents	Pro- cedur e
865-0	Image	Sharpnessad- justment(Text/ Photo)	Reproduc- tion ratio 40% or smaller	SCN	1 <0-99>	SYS	When the value increases, the image becomes sharper. When the value decreases, the image becomes softer. The smaller the value is, the less the moire becomes. One's place: Fixed value (05-865 is "1", 05-866 is "2", 05-867 is "5") Ten's place: Sharp- ness intensity (0: Use default value, 1-9: Filter intensity)	4
865-1			Reproduc- tion ratio 41-80%	SCN	1 <0-99>	SYS		4
865-2			Reproduc- tion ratio 81% or larger	SCN	1 <0-99>	SYS		4
866-0	Image	Sharpnessad- justment(Text)	Reproduc- tion ratio 40% or smaller	SCN	2 <0-99>	SYS		4
866-1			Reproduc- tion ratio 41-80%	SCN	2 <0-99>	SYS		4
866-2			Reproduc- tion ratio 81% or larger	SCN	2 <0-99>	SYS		4
867-0	Image	Sharpnessad- just- ment(Photo)	Reproduc- tion ratio 40% or smaller	SCN	5 <0-99>	SYS		4
867-1			Reproduc- tion ratio 41-80%	SCN	5 <0-99>	SYS		4
867-2			Reproduc- tion ratio 81% or larger	SCN	5 <0-99>	SYS		4
913	Image	Range correc- tion on origi- nal manually set on the original glass	Custom Mode 1	PPC	EUR: 12 UC: 12 JPN: 22 <11-14, 21-24, 31-34, 41-44>	SYS	Set whether the values of the background peak and text peak are fixed or not. One's place is an adjustment for "automatic density" and ten's place is for "man- ual density". Once they are fixed, the range correction is per- formed with standard values. The values of the back- ground peak and text peak affect the repro- duction of the back- ground density and text density respectively. 1: fixed/fixed 2: varied/fixed 3: fixed/varied 4: varied/varied * Background peak/ Text peak	1
914	Image		Custom Mode 2	PPC	22 <11-14, 21-24, 31-34, 41-44>	SYS		1
915	Image		Custom Mode 3	PPC	12 <11-14, 21-24, 31-34, 41-44>	SYS		1

Adjustment mode (05) <e-STUDIO352/353/452/453>								
Code	Classifi- cation	Items		Func- tion	Default <Accept- able value>	RAM	Contents	Pro- cedur e
916	Image	Range correc- tion on origi- nal set on the RADF	Custom Mode 1	PPC	EUR: 12 UC: 12 JPN: 22 <11-14, 21-24, 31-34, 41-44>	SYS	Set whether the values of the background peak and text peak are fixed or not. One's place is an adjustment for “automatic density” and ten's place is for “man- ual density”. Once they are fixed, the range correction is per- formed with standard values.  The values of the back- ground peak and text peak affect the repro- duction of the back- ground density and text density respectively. 1: fixed/fixed 2: varied/fixed 3: fixed/varied 4: varied/varied * Background peak/ Text peak	1
917	Image		Custom Mode 2	PPC	22 <11-14, 21-24, 31-34, 41-44>	SYS		1
918	Image		Custom Mode 3	PPC	12 <11-14, 21-24, 31-34, 41-44>	SYS		1
919	Image	Range correc- tion Back- ground peak adjustment	Custom Mode 1	PPC	40 <0-255>	SYS	When the value increases, the back- ground becomes more brightened.	1
920	Image		Custom Mode 2	PPC	64 <0-255>	SYS		1
921	Image		Custom Mode 3	PPC	16 <0-255>	SYS		1
922	Image	Sharpness adjustment	Custom Mode 1	PPC	1 <0-99>	SYS	When the value increases, the image becomes sharper. When the value decreases, the image becomes softer. The smaller the value is, the less the moire becomes. One's place: Fixed value (05-922 is "1", 05-923 is "5", 05-924 is "2")Ten's place: Sharp- ness intensity(0: Use default value, 1-9: Filter intensity)	1
923	Image		Custom Mode 2	PPC	EUR: 45 UC: 45 JPN: 45 <0-99>	SYS		1
924	Image		Custom Mode 3	PPC	2 <0-99>	SYS		1
928	Image	Adjustment of smudged/faint text	Custom Mode 1	PPC	2 <0-4>	SYS	Adjustment of the smudged/faint text. With increasing the value, the faint text is suppressed, and with decreasing it, the smudged text is sup- pressed.	1

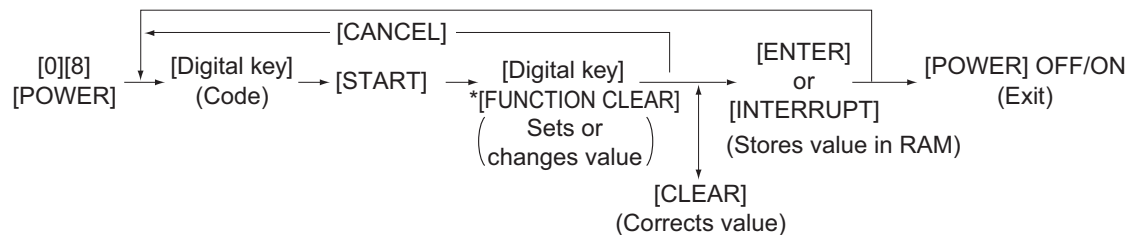


Adjustment mode (05) <e-STUDIO352/353/452/453>								
Code	Classification	Items		Function	Default <Acceptable value>	RAM	Contents	Procedure
931	Image	Density adjustment	Custom Mode 1	PPC	128 <0-255>	SYS	When the value increases, the image of the center step becomes darker.	1
932	Image	Fine adjustment of "manual density"/ Center value	Custom Mode 2	PPC	128 <0-255>	SYS		1
933	Image		Custom Mode 3	PPC	128 <0-255>	SYS		1
934	Image	Density adjustment	Custom Mode 1	PPC	20 <0-255>	SYS	When the value increases, the image of the "light" step density becomes lighter.	1
935		Fine adjustment of "manual density"/ Light step value	Custom Mode 2	PPC	20 <0-255>	SYS		1
936			Custom Mode 3	PPC	20 <0-255>	SYS		1
937	Image	Density adjustment	Custom Mode 1	PPC	20 <0-255>	SYS	When the value increases, the image of the "Dark" step density becomes lighter.	1
938		Fine adjustment of "manual density"/ Dark step value	Custom Mode 2	PPC	20 <0-255>	SYS		1
939			Custom Mode 3	PPC	20 <0-255>	SYS		1
940	Image	Density adjustment	Custom Mode 1	PPC	128 <0-255>	SYS	When the value increases, the image becomes darker.	1
941		Fine adjustment of "automatic density"	Custom Mode 2	PPC	128 <0-255>	SYS		1
942			Custom Mode 3	PPC	128 <0-255>	SYS		1
943	Image	Gamma data slope adjustment	Custom Mode 1	PPC	0 <0-99>	SYS	One's place: 0: Equivalent to the set value 5 1 to 9: Select the slope of Gammacurve (The larger the value is, the larger the slope becomes.) Ten's place: 0: Equivalent to the set value 5 1 to 9: Select the slope of low density (The smaller the value is, the darker the background becomes.) 00: Use default value	1
944			Custom Mode 2	PPC	0 <0-99>	SYS		1
945			Custom Mode 3	PPC	0 <0-99>	SYS		1
976	Maintenance	Equipment number (serial number) entry		ALL	-	SYS	When this adjustment is performed with this code, the setting code (08-995) is also performed automatically (10 digits)	1

## 2.2.7 Setting mode (08) (e-STUDIO350/450)

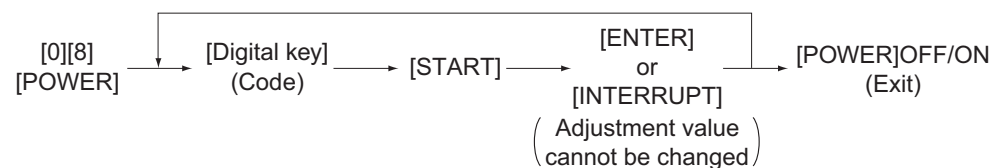
The items in the setting code list can be set or changed in this setting mode (08).

### Procedure 1

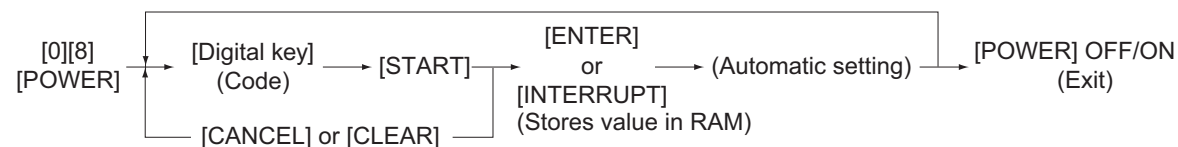


\* Press [FUNCTION CLEAR] to enter minus (-).

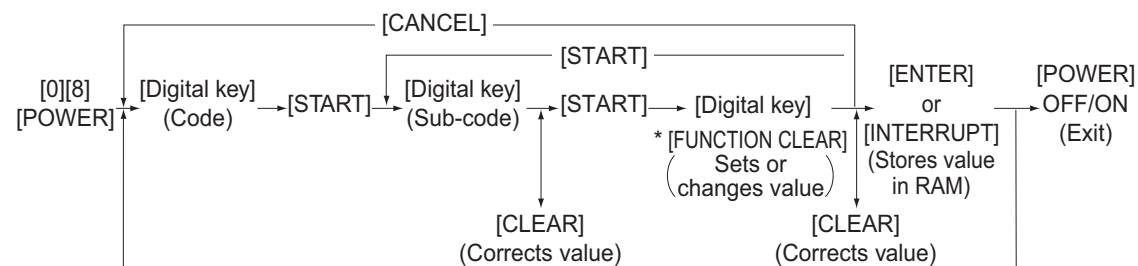
### Procedure 2



### Procedure 3

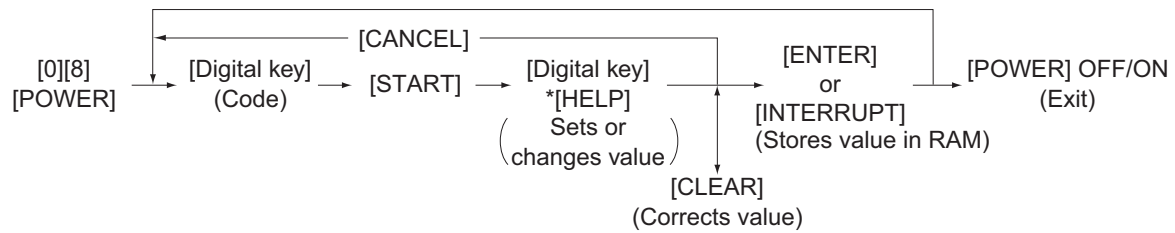


### Procedure 4



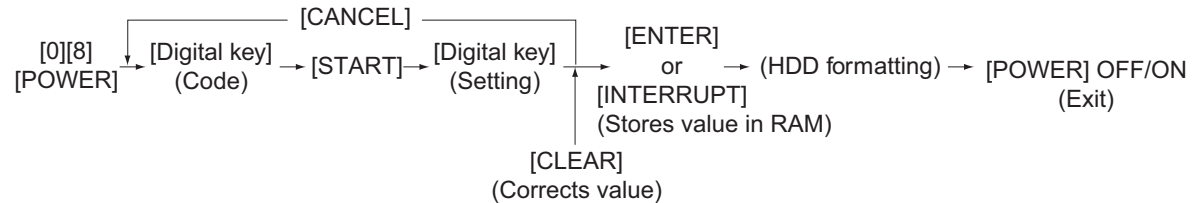
\* Press [FUNCTION CLEAR] to enter minus (-).

## Procedure 5

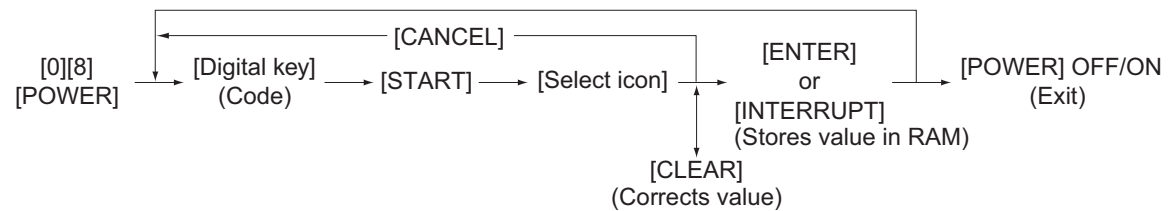


\* Press [HELP] to enter "-".

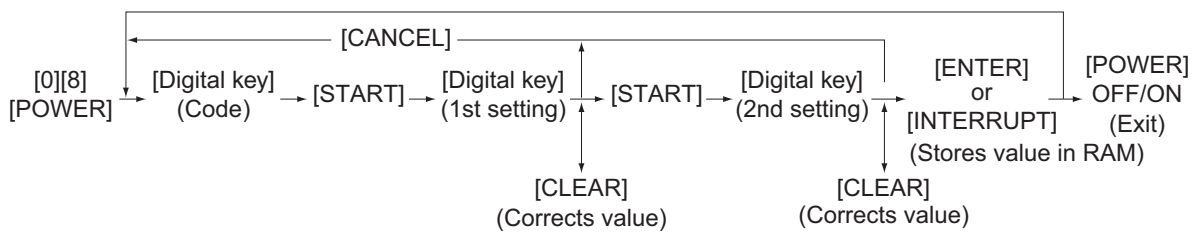
## Procedure 7



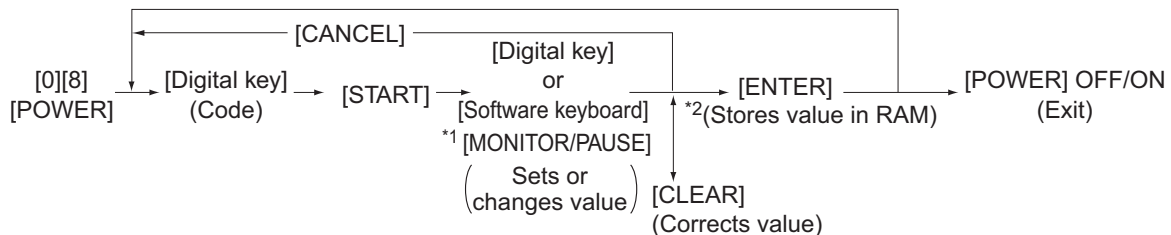
## Procedure 9



## Procedure 10



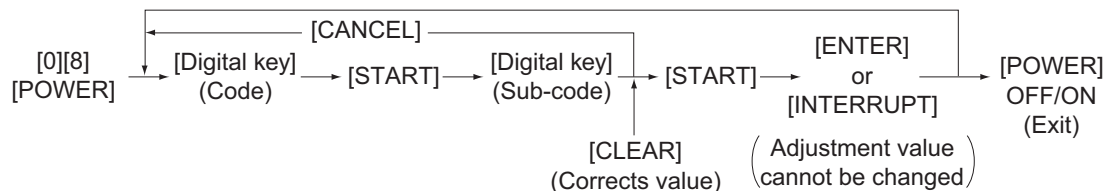
## Procedure 11 and 12



\*1 Press [MONITOR/PAUSE] to enter "-", when entering telephone number.

\*2 The data are stored in SYS-RAM in procedure 11 and stored in NIC-RAM in procedure 12.

## Procedure 14



### Notes:

1. The digit after the hyphen in "Code" of the following table is a sub code.
2. e-STUDIO350/450:  
In "RAM", the NVRAM of the board in which the data of each code is stored is indicated.  
"M" stands for the LGC board, "SYS" and "UTY" stands for the SYS board and "NIC" stands for the NIC board.

Setting mode (08) <e-STUDIO350/450>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
200	General	Date and time setting	ALL	- <13 digits>	-	Year/month/date/day/ hour/minute/second Example: 03 07 0 13 13 27 48 "Day" - "0" is for "Sun- day". Proceeds Monday through Saturday from "1" to "6".	5
201	General	Destination selection	ALL	EUR: 0 UC: 1 JPN: 2 <0-2>	M	0: EUR 1: UC 2: JPN	1
202	User interface	Counter installed externally	ALL	0 <0-3>	M	0: No external counter 1: Coin controller 2: Copy key card (This value is valid only when "2" is set to 08-201.) 3: Key copy counter	1
203	General	Line adjustment mode	ALL	0 <0-1>	M	0: For factory ship- ment 1: For line * Field: "0" must be selected	1
204	User interface	Auto-clear timer setting	ALL	3 <0-10>	SYS	Timer to return the equipment to the default settings when the [START] button is not pressed after the function and the mode are set 0: Not cleared 1 to 10: Set number x 15 sec.	1

Setting mode (08) <e-STUDIO350/450>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
205	User interface	Auto power save mode timer setting	ALL	EUR: 11 UC: 11 JPN: 6 Others: 11 <0, 6-15>	SYS	Timer to automatically switch to the Auto power save mode when the equipment has not been used 0: Invalid 6: 3min. 7: 4min. 8: 5min. 9: 7min. 10: 10min. 11: 15min. 12: 20min. 13: 30min. 14: 45min. 15: 60min.	1
206	User interface	Auto Shut Off Mode timer setting (Auto Shut Off Mode / Sleep Mode)	ALL	Refer to content <0-20>	SYS	Timer to turn OFF the power or to enter the Sleep Mode automatically when the equipment has not been used 0: 3min. 1: 5min. 2: 10min. 3: 15min. 4: 20min. 5: 25min. 6: 30min. 7: 40min. 8: 50min. 9: 60min. 10: 70min. 11: 80min. 12: 90min. 13: 100min. 14: 110min. 15: 120min. 16: 150min. 17: 180min. 18: 210min. 19: 240min. 20: Not used <Default value> e-STUDIO350 JPN: 0 UC, EUR: 9 Others: 9 e-STUDIO450 JPN: 0 UC, EUR: 12 Others: 12	1
207	User interface	Highlighting display on LCD	ALL	0 <0-1>	SYS	0: Black letter on white background 1: White letter on black background	1
209	User interface	Default setting of filing format when E-mailing	ALL	1 <0-1>	SYS	0: TIFF (Multi) 1: PDF	1
210	Paper feeding	Paper size (A6-R) feeding/width wise direction	PRT	148/105 <148-432/105-297>	M		10
216	Paper feeding	Tab paper print Tab width setting (Bypass feeding)	ALL	130 <100-200>	SYS		1
217	Paper feeding	Tab paper print Tab width setting (Bypass feeding)	ALL	1300 <0-3000>	SYS		1
219	User interface	Default setting of filing format when storing files	SCN	0 <0-3>	SYS	0: TIFF (Multi) 1: PDF 2: Not used 3: TIFF (Single)	1

Setting mode (08) <e-STUDIO350/450>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
220	User interface	Language displayed at power-ON	ALL	EUR: 0 UC: 0 JPN: 5 <0-6>	SYS	0: Language 1 1: Language 2 2: Language 3 3: Language 4 4: Language 5 5: Language 6 6: Language 7	1
221	User interface	Language selection in UI data at Web power ON	ALL	EUR: 0 UC: 0 JPN: 5 <0-6>	SYS	0: Language 1 1: Language 2 2: Language 3 3: Language 4 4: Language 5 5: Language 6 6: Language 7	1
224	Paper feeding	Paper size for bypass feed	PPC	UNDEF	SYS	Press the button on the LCD to select the size.	9
225	Paper feeding	Paper size for upper drawer	ALL	EUR: A4 UC: LT JPN: A4	M	Press the button on the LCD to select the size.	9
226	Paper feeding	Paper size for lower drawer	ALL	EUR: A3 UC: LD JPN: A3	M	Press the button on the LCD to select the size.	9
227	Paper feeding	Paper size for PFP upper drawer	ALL	EUR: A4-R UC: LT-R JPN: A4-R	M	Press the button on the LCD to select the size.	9
228	Paper feeding	Paper size for PFP lower drawer	ALL	EUR: A4 UC: LG JPN: B4	M	Press the button on the LCD to select the size.	9
229	Paper feeding	Paper size (A3) feeding/width wise direction	ALL	420/297 <182-432/140-297>	M		10
230	Paper feeding	Paper size (A4-R) feeding/width wise direction	ALL	297/210 <182-432/140-297>	M		10
231	Paper feeding	Paper size (A5-R) feeding/width wise direction	ALL	210/148 <182-432/140-297>	M		10
232	Paper feeding	Paper size (B4) feeding/width wise direction	ALL	364/257 <182-432/140-297>	M		10
233	Paper feeding	Paper size (B5-R) feeding/width wise direction	ALL	257/182 <182-432/140-297>	M		10
234	Paper feeding	Paper size (LT-R) feeding/width wise direction	ALL	279/216 <182-432/140-297>	M		10

Setting mode (08) <e-STUDIO350/450>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
235	Paper feeding	Paper size (LD) feeding/width wise direction	ALL	432/279 <182-432/140-297>	M		10
236	Paper feeding	Paper size (LG) feeding/width wise direction	ALL	356/216 <182-432/140-297>	M		10
237	Paper feeding	Paper size (ST-R) feeding/width wise direction	ALL	216/140 <182-432/140-297>	M		10
238	Paper feeding	Paper size (COMPUTER) feeding/width wise direction	ALL	356/257 <182-432/140-297>	M		10
239	Paper feeding	Paper size (FOLIO) feeding/width wise direction	ALL	330/210 <182-432/140-297>	M		10
240	Paper feeding	Paper size (13"LG) feeding/width wise direction	ALL	330/216 <182-432/140-297>	M		10
241	Paper feeding	Paper size (8.5"X8.5") feeding/width wise direction	ALL	216/216 <182-432/140-297>	M		10
242	Paper feeding	Paper size (Non-standard) feeding/width wise direction	ALL	432/279 <148-432/105-297>	SYS		10
243	Paper feeding	Memory 1 Paper size (bypass feeding/non-standard type) feeding/width wise direction	ALL	148/100 <148-432/100-297>	SYS	Registers the paper size of bypass feed (non-standard type) into [MEMORY 1].	10
244	Paper feeding	Paper size (8K) feeding/width wise direction	ALL	390/270 <182-432/140-297>	M		10
245	Paper feeding	Paper size (16K-R) feeding/width wise direction	ALL	270/195 <182-432/140-297>	M		10
247	Paper feeding	Memory 2 Paper size (bypass feeding/non-standard type) feeding/width wise direction	ALL	148/100 <148-432/100-297>	SYS	Registers the paper size of bypass feed (non-standard type) into [MEMORY 2].	10
248	Paper feeding	Memory 3 Paper size (bypass feeding/non-standard type) feeding/width wise direction	ALL	148/100 <148-432/100-297>	SYS	Registers the paper size of bypass feed (non-standard type) into [MEMORY 3].	10

Setting mode (08) <e-STUDIO350/450>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
249	Paper feeding	Memory 4 Paper size (bypass feeding/non-standard type) feeding/width wise direction	ALL	148/100 <148-432/100-297>	SYS	Registers the paper size of bypass feed (non-standard type) into [MEMORY 4].	10
250	Maintenance	Service technician telephone number	ALL	0 <32 digits>	SYS	A telephone number can be entered up to 32 digits. Use the [MONITOR/PAUSE] button to enter a hyphen(-).	11
251	Maintenance	Setting value of PM counter	ALL	Refer to content <8 digits>	M	<Default> e-STUDIO350 UC, EUR: 120000 JPN: 0 e-STUDIO450 UC, EUR: 150000 JPN: 0	1
252	Maintenance	Current value of PM counter Display/0 clearing	ALL	0 <8 digits>	M	Counts up when the registration sensor is ON.	1
253	Maintenance	Error history display	ALL	-	SYS	Displays the latest 20 errors data	2
254	Paper feeding	LT↔A4/LD↔A3	PRT	0 <0-1>	SYS	Sets whether the data is printed on the different but similar size paper or not when the paper of corresponding size is not available. 0: Valid (The data is printed on A4/A3 when LT/LD is selected or vice versa.) 1: Invalid (The message to use the selected paper size is displayed.)	1
255	Paper feeding	PFP/LCF installation	ALL	0 <0-4>	M	0: Automatic 1: PFP single-drawer type installed 2: PFP dual-drawer type installed 3: LCF installed 4: Not installed	1
256	Paper feeding	Paper size setting /LCF	ALL	EUR: A4 UC: LT JPN: A4	M	Press the icon on the LCD to select the size.	9
257	Counter	Counter copy	ALL	- <1-2>	-	1: Electrical counter -> Backup counter 2: Backup counter -> Electrical counter (P. 2-241)	-



Setting mode (08) <e-STUDIO350/450>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
258	Maintenance	FSMS acceptance	ALL	1 <0-2>	SYS	Sets whether the FSMS connection is accepted or not. 0: Prohibited 1: Accepted (serial connection only) 2: Accepted (both serial and USB connections)	1
259	Network	Storage period at trail and private	PRT	14 <0-30>	SYS	0: No limits 1 to 30: 1 to 30 days	1
260	Network	Web data retention period	SCN	10 <3 digits>	SYS	When a certain period of time has passed without operation after accessing TopAccess, the data being registered is automatically reset. This period is set at this code. (Unit: Minute)	1
263	User interface	Administrator's password (Maximum 10 digits)	ALL	123456 <10 digits>	-	The password can be entered in alphabets and figures (A-Z, a-z and 0-9) within 10 digits.	11
264	Network	File retention period	SCN	30 <0-999>	SYS	0: No limits 1 to 999: 1 to 999 days	1
265	Network	Maximum data capacity at E-mailing	SCN	30 <2-30>	SYS	2 to 30 M bytes	1
266	Network	Maximum data capacity at Internet FAX	ALL	30 <2-30>	SYS	2 to 30 M bytes	1
267	Electronic filing	Full guarantee of documents in Electronic Filing when HDD is full	ALL	0 <0-1>	SYS	Sets the file retention level when editing the files in the Electronic Filing (at CutDoc/SaveDoc command execution). 0: Not full retained 1: Fully retained - Retains the source file until CutDoc/SaveDoc command is completed. * The file is not deleted even if the HDD has become full during the execution of command when "1" is set.	1
270	Electronic filing	Default setting of user box retention period	ALL	0 <0-999>	SYS	Sets the data retention period when creating a user box. 0: Not deleted 1 to 999: Retention period (Unit: Day)	1

Setting mode (08) <e-STUDIO350/450>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
271	General	Warning display of the HDD capacity to be filled	ALL	90 <0-100>	SYS	Sets the percentage of the HDD capacity filled which warning is displayed 0 to 100: 0 to 100%	1
272	Scanning	Notification setting of E-mail saving time limit	ALL	3 <0-99>	SYS	Sets the days left the notification of E-mail saving time limit appears 0 to 99: 0 to 99 days	1
273	Scanning	Default setting of partial size when transmitting E-mail	ALL	0 <0-6>	SYS	Sets the default value for the partial size of E-mail to be transmitted when creating a template. 0: Not divided 1: 64            2: 128 3: 256          4: 512 5: 1024 6: 2048 (Unit: KB)	1
274	FAX	Default setting of page by page when transmitting Internet FAX	ALL	0 <0-4>	SYS	Sets the default value for the page by page of Internet FAX to be transmitted when creating a template. 0: Not divided 1: 256 2: 512 3: 1024 4: 2048 (Unit: KB)	1
276	User interface	Default setting of density adjustment	SCN	0 <0-11>	SYS	0: Automatic density 1: Step -5 2: Step -4 3: Step -3 4: Step -2 5: Step -1 6: Step 0 (center) 7: Step +1 8: Step +2 9: Step +3 10: Step +4 11: Step +5 (1 to 11: Manual density)	1
281	User interface	Default setting of resolution	SCN	1 <0-4>	SYS	0: 150 dpi 1: 200 dpi 2: 300 dpi3: 400dpi 4: 600 dpi	1
283	User interface	Default setting of original mode	SCN	0 <0-2>	SYS	0: Text 1: Text/Photo 2: Photo	1
284	User interface	Default setting of scanning mode	SCN	0 <0-2>	SYS	0: Single 1: Book 2: Tablet	1
285	User interface	Default setting of rotation mode	SCN	0 <0-3>	SYS	0: 0 degree 1: 90 degrees 2: 180 degrees 3: 270 degrees	1

Setting mode (08) <e-STUDIO350/450>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
286	User interface	Default setting of original paper size	SCN	0 <0-22>	SYS	0: Automatic 1: A3 2: A4 3: LD 4: LT 5: A4-R 6: A5-R 7: LT-R 8: LG 9: B4 10: B5 11: ST-R 12: COMP 13: B5-R 14: FOLIO 15: 13"LG 16: 8.5"x 8.5" 18: A6-R 19: Size mixed 20: 8K 21: 16K 22: 16K-R	1
288	General	Searching interval of deleting expired files	ALL	12 <1-24>	SYS	Sets the search interval of expired files. Deletes if expired file is found. (Unit: Hour)	1
290	Network	Raw printing job (Duplex)	PRT	1 <0-1>	SYS	0: Valid 1: Invalid	1
291	Network	Raw printing job (Paper size)	PRT	EUR: 6 UC: 2 JPN: 6 <0 -13>	SYS	0: LD 1: LG 2: LT 3: COMP 4: ST 5: A3 6: A4 7: A5 8: A6 9: B4 10: B5 11: FOLIO 12: 13 "LG 13: 8.5" x 8.5"	1
292	Network	Raw printing job (Paper type)	PRT	0 <0-4>	SYS	0: Plain paper 1: Thick paper 1 2: Thick paper 2 3: Thick paper 3 4: OHP film	1
293	Network	Raw printing job (Paper direction)	PRT	0 <0-1>	SYS	0: Portrait 1: Landscape	1
294	Network	Raw printing job (Staple)	PRT	1 <0-1>	SYS	0: Valid 1: Invalid	1
295	Network	Raw printing job (receiving tray)	PRT	0 <0-5>	SYS	0: Inner tray 1: Finisher tray 1 2: Finisher tray 2 3: Not used 4: Job Separator upper tray 5: Job Separator lower tray* The settings 4 and 5 are effective only when the Job Separator (MJ-5004) is installed.	1
296	Network	Raw printing job (Number of form lines)	PRT	1200 <500-12800>	SYS	Sets the number of form lines from 5 to 128. (A hundredfold of the number of form lines is defined as the setting value.)	1
297	Network	Raw printing job (PCL font pitch)	PRT	1000 <44-9999>	SYS	Sets the font pitch from 0.44 to 99.99. (A hundredfold of the font pitch is defined as the setting value.)	1

Setting mode (08) <e-STUDIO350/450>								
Code	Classification	Items		Function	Default <Acceptable value>	RAM	Contents	Procedure
298	Network	Raw printing job (PCL font size)		PRT	1200 <400-99975>	SYS	Sets the font size from 4 to 999.75. (A hundredfold of the font size is defined as the setting value.)	1
299	Network	Raw printing job (PCL font number)		PRT	0 <0-79>	SYS	Sets the PCL font number.	1
300	User interface	Maximum number of copy volume (MAX9)		PPC	0 <0-2>	SYS	0: 999 1: 99 2: 9	1
302	User interface	Original counter display		PPC	EUR: 2 UC: 0 JPN: 0 <0, 2>	SYS	Sets whether the original counter is displayed or not. 0: Not displayed 2: Displayed	1
305-0	Counter	Number of output pages in copier function	A3	PPC	0 <8 digits>	SYS	Counts the output pages in the copier function for each paper size according to the setting for the count setting of large-sized paper (08-352) and the definition setting of largesized paper (08-353).	4
305-1			A4					
305-2			A5					
305-3			A6					
305-4			B4					
305-5			B5					
305-6			FOLIO					
305-7			LD					
305-8			LG					
305-9			LT					
305-10			ST					
305-11			COMP					
305-12			13"LG					
305-13			8.5" x 8.5"					
305-14			16K					
305-15			8K					
305-16			Others					
306-0	Counter	Number of output pages in Printer Function	A3	PRT	0 <8 digits>	SYS	Counts the output pages in the printer function for each paper size according to the setting for the count setting of large-sized paper (08-352) and the definition setting of largesized paper (08-353).	4
306-1			A4					
306-2			A5					
306-3			A6					
306-4			B4					
306-5			B5					
306-6			FOLIO					
306-7			LD					
306-8			LG					
306-9			LT					
306-10			ST					
306-11			COMP					
306-12			13"LG					
306-13			8.5" x 8.5"					
306-14			16K					
306-15			8K					
306-16			Others					

Setting mode (08) <e-STUDIO350/450>								
Code	Classifi- cation	Items		Func- tion	Default <Accept- able value>	RAM	Contents	Pro- cedur e
307-0	Counter	Number of output pages at List Print Mode	A3	PRT	0 <8 digits>	SYS	Counts the output pages at the List Print Mode for each paper size according to the setting for the count setting of large-sized paper (08-352) and the definition setting of largesized paper (08- 353).	4
307-1			A4					
307-2			A5					
307-3			A6					
307-4			B4					
307-5			B5					
307-6			FOLIO					
307-7			LD					
307-8			LG					
307-9			LT					
307-10			ST					
307-11			COMP					
307-12			13"LG					
307-13			8.5" x 8.5"					
307-14			16K					
307-15			8K					
307-16			Others					
308-0	Counter	Number of output pages in FAX Func- tion	A3	FAX	0 <8 digits>	SYS	Counts the output pages in the FAX Func- tion for each paper size according to the setting for the count setting of large-sized paper (08- 352) and the definition setting of largesized paper (08-353).	4
308-1			A4					
308-2			A5					
308-3			A6					
308-4			B4					
308-5			B5					
308-6			FOLIO					
308-7			LD					
308-8			LG					
308-9			LT					
308-10			ST					
308-11			COMP					
308-12			13"LG					
308-13			8.5" x 8.5"					
308-14			16K					
308-15			8K					
308-16			Others					

Setting mode (08) <e-STUDIO350/450>								
Code	Classifi- cation	Items		Func- tion	Default <Accept- able value>	RAM	Contents	Pro- cedur e
312-0	Counter	Number of scanning pages in Copier Func- tion	A3	PPC	0 <8 digits>	SYS	Counts the scanning pages in the Copier Function for each paper size according to the setting for the count setting of largesized paper (08-352) and the definition setting of largesized paper (08- 353).	4
312-1			A4					
312-2			A5					
312-3			A6					
312-4			B4					
312-5			B5					
312-6			FOLIO					
312-7			LD					
312-8			LG					
312-9			LT					
312-10			ST					
312-11			COMP					
312-12			13"LG					
312-13			8.5" x 8.5"					
312-14			16K					
312-15			8K					
312-16			Others					
313-0	Counter	Number of scanning pages in Scanning Function	A3	SCN	0 <8 digits>	SYS	Counts the scanning pages in the Scanning Function for each paper size according to the setting for the count setting of large-sized paper (08-352) and the definition setting of largesized paper (08- 353).	4
313-1			A4					
313-2			A5					
313-3			A6					
313-4			B4					
313-5			B5					
313-6			FOLIO					
313-7			LD					
313-8			LG					
313-9			LT					
313-10			ST					
313-11			COMP					
313-12			13"LG					
313-13			8.5" x 8.5"					
313-14			16K					
313-15			8K					
313-16			Others					

Setting mode (08) <e-STUDIO350/450>								
Code	Classifi- cation	Items		Func- tion	Default <Accept- able value>	RAM	Contents	Pro- cedur e
314-0	Counter	Number of scanning pages in FAX Function	A3	FAX	0 <8 digits>	SYS	Counts the scanning pages in the FAX Func- tion for each paper size according to the setting for the count setting of large-sized paper (08- 352) and the definition setting of largesized paper (08-353).	4
314-1			A4					
314-2			A5					
314-3			A6					
314-4			B4					
314-5			B5					
314-6			FOLIO					
314-7			LD					
314-8			LG					
314-9			LT					
314-10			ST					
314-11			COMP					
314-12			13"LG					
314-13			8.5" x 8.5"					
314-14			16K					
314-15			8K					
314-16			Others					
315-0	Counter	Number of transmitted pages in FAX Function	A3	FAX	0 <8 digits>	SYS	Counts the transmitted pages in the FAX Func- tion for each paper size according to the setting for the count setting of large-sized paper (08- 352) and the definition setting of largesized paper (08-353).	4
315-1			A4					
315-2			A5					
315-3			A6					
315-4			B4					
315-5			B5					
315-6			FOLIO					
315-7			LD					
315-8			LG					
315-9			LT					
315-10			ST					
315-11			COMP					
315-12			13"LG					
315-13			8.5" x 8.5"					
315-14			16K					
315-15			8K					
315-16			Others					

Setting mode (08) <e-STUDIO350/450>								
Code	Classifi- cation	Items		Func- tion	Default <Accept- able value>	RAM	Contents	Pro- cedur e
316-0	Counter	Number of received pages in FAX Function	A3	FAX	0 <8 digits>	SYS	Counts the received pages in the FAX Func- tion for each paper size according to the setting for the count setting of large-sized paper (08- 352) and the definition setting of largesized paper (08-353).	4
316-1			A4					
316-2			A5					
316-3			A6					
316-4			B4					
316-5			B5					
316-6			FOLIO					
316-7			LD					
316-8			LG					
316-9			LT					
316-10			ST					
316-11			COMP					
316-12			13"LG					
316-13			8.5" x 8.5"					
316-14			16K					
316-15			8K					
316-16			Others					
320-0	Counter	Display of number of output pages in Copier Function	Large	PPC	0 <8 digits>	SYS	Counts the number of output pages in the Copier Function according to its size (large/small). Large: Number of output pages of large-sized paper defined at 08- 353 Small: Number of output pages other than set as large-sized paper Total: Total number out- put pages of all paper sizes.	14
320-1	Counter		Small	PPC	0 <8 digits>	SYS		14
320-2	Counter		Total	PPC	0 <8 digits>	SYS		14
321-0	Counter	Display of number of output pages in Printer Function	Large	PRT	0 <8 digits>	SYS	Counts the number of output pages in the Printer Function according to its size (large/small). Large: Number of output pages of large-sized paper defined at 08- 353 Small: Number of output pages other than set as large-sized paper Total: Total number out- put pages of all paper sizes.	14
321-1	Counter		Small	PRT	0 <8 digits>	SYS		14
321-2	Counter		Total	PRT	0 <8 digits>	SYS		14



Setting mode (08) <e-STUDIO350/450>								
Code	Classification	Items		Function	Default <Acceptable value>	RAM	Contents	Procedure
322-0	Counter	Display of number of output pages at List Print Mode	Large	PRT	0 <8 digits>	SYS	Counts the number of output pages at the List Print Mode Function according to its size (large/small). Large: Number of output pages of large-sized paper defined at 08- 353 Small: Number of output pages other than set as large-sized paper Total: Total number out- put pages of all paper sizes.	14
322-1	Counter		Small	PRT	0 <8 digits>	SYS		14
322-2	Counter		Total	PRT	0 <8 digits>	SYS		14
323-0	Counter	Display of number of output pages in FAX Func- tion	Large	FAX	0 <8 digits>	SYS	Counts the number of output pages in the FAX Function according to its size (large/small). Large: Number of output pages of large-sized paper defined at 08- 353 Small: Number of output pages other than set as large-sized paper Total: Total number out- put pages of all paper sizes.	14
323-1	Counter		Small	FAX	0 <8 digits>	SYS		14
323-2	Counter		Total	FAX	0 <8 digits>	SYS		14
327-0	Counter	Display of number of scanning pages in Copier Func- tion	Large	PPC	0 <8 digits>	SYS	Counts the number of scanning pages in the Copier Function according to its size (large/small). Large: Number of output pages of large-sized paper defined at 08- 353 Small: Number of output pages other than set as large-sized paper Total: Total number out- put pages of all paper sizes.	14
327-1	Counter		Small	PPC	0 <8 digits>	SYS		14
327-2	Counter		Total	PPC	0 <8 digits>	SYS		14

Setting mode (08) <e-STUDIO350/450>								
Code	Classification	Items		Function	Default <Acceptable value>	RAM	Contents	Procedure
328-0	Counter	Display of number of scanning pages in FAX Function	Large	FAX	0 <8 digits>	SYS	Counts the number of scanning pages in the FAX Function according to its size (large/small). Large: Number of output pages of large-sized paper defined at 08- 353 Small: Number of output pages other than set as large-sized paper Total: Total number out- put pages of all paper sizes.	14
328-1	Counter		Small	FAX	0 <8 digits>	SYS		14
328-2	Counter		Total	FAX	0 <8 digits>	SYS		14
329-0	Counter	Display of number of scanning pages in Scanning Function	Large	SCN	0 <8 digits>	SYS	Counts the number of scanning pages in the Scanning Function according to its size (large/small). Large: Number of output pages of large-sized paper defined at 08- 353 Small: Number of output pages other than set as large-sized paper Total: Total number out- put pages of all paper sizes.	14
329-1	Counter		Small	SCN	0 <8 digits>	SYS		14
329-2	Counter		Total	SCN	0 <8 digits>	SYS		14
330-0	Counter	Display of number of transmitted pages in FAX Function	Large	FAX	0 <8 digits>	SYS	Counts the number of transmitted pages in the FAX Function according to its size (large/small). Large: Number of output pages of large-sized paper defined at 08- 353 Small: Number of output pages other than set as large-sized paper Total: Total number out- put pages of all paper sizes.	14
330-1	Counter		Small	FAX	0 <8 digits>	SYS		14
330-2	Counter		Total	FAX	0 <8 digits>	SYS		14

Setting mode (08) <e-STUDIO350/450>								
Code	Classifi- cation	Items		Func- tion	Default <Accept- able value>	RAM	Contents	Pro- cedur e
331	User interface	Default setting of screen		ALL	0 <0-3>	SYS	Sets the screen to be displayed after the auto-clear time has passed or it has recov- ered from the energy saving mode or sleep mode. 0: Copier 1: Fax 2: Scan 3: Box	1
332-0	Counter	Display of number of received pages in FAX Function	Large	FAX	0 <8 digits>	SYS	Counts the number of received pages in the FAX Function according to its size (large/small). Large: Number of output pages of large-sized paper defined at 08- 353 Small: Number of output pages other than set as large-sized paper Total: Total number out- put pages of all paper sizes.	14
332-1	Counter		Small	FAX	0 <8 digits>	SYS		14
332-2	Counter		Total	FAX	0 <8 digits>	SYS		14
335-0	Counter	Display of total number of pages	Large	ALL	0 <8 digits>	SYS	Displays the total num- ber of pages in the Copier/Printer/Scan- ning/FAX Functions.	14
335-1	Counter		Small	ALL	0 <8 digits>	SYS		14
335-2	Counter		Total	ALL	0 <8 digits>	SYS		14
344	Counter	Count setting of tab paper (PM)		ALL	1 <0-1>	M	0: Counted as 1 1: Counted as 2	1
346	Counter	Count setting of large- sized paper (PM)		ALL	1 <0-1>	M	0: Counted as 1 1: Counted as 2	1
347	Counter	Definition setting of large- sized paper (PM)		ALL	1 <0-1>	M	0: A3/LD 1: A3/LD/B4/LG/ FOLIO/COMP	1
348	Counter	Count setting of thick paper (PM)		ALL	1 <0-1>	M	0: Counted as 1 1: Counted as 2	1
349	Counter	Count setting of OHP film (PM)		ALL	1 <0-1>	M	0: Counted as 1 1: Counted as 2	1
352	Counter	Count setting of large- sized paper (Fee charging system counter)		ALL	JPN: 0 OTHER: 1 <0-2>	M	0: Counted as 1 1: Counted as 2 2: Counted as 1 (Mechanical counter is double counter)	1
353	Counter	Definition setting of large- sized paper (Fee charging system counter)		ALL	0 <0-1>	M	0: A3/LD 1: A3/LD/B4/LG/ FOLIO/COMP/8k	1
356	Counter	Counter for upper drawer feeding		ALL	0 <8 digits>	M	Counts the number of sheets fed from upper drawer	2

Setting mode (08) <e-STUDIO350/450>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
357	Counter	Counter for lower drawer feeding	ALL	0 <8 digits>	M	Counts the number of sheets fed from lower drawer	2
358	Counter	Counter for bypass feeding	ALL	0 <8 digits>	M	Counts the number of sheets fed from bypass feed	2
359	Counter	Counter for LCF feeding	ALL	0 <8 digits>	M	Counts the number of sheets fed from LCF	2
360	Counter	Counter for PFP upper drawer feeding	ALL	0 <8 digits>	M	Counts the number of sheets fed from PFP upper drawer	2
370	Counter	Counter for PFP lower drawer feeding	ALL	0 <8 digits>	M	Counts the number of sheets fed from PFP lower drawer	2
372	Counter	Counter for ADU	ALL	0 <8 digits>	M	Counts the number of output pages of duplex printing.	2
374	Counter	Counter for RADF	ALL	0 <8 digits>	SYS	Counts the number of originals fed from RADF	2
381	Counter	Setting for counter installed externally	ALL	1 <0-7>	M	Selects the job to count up for the external counter. 0: Not selected 1: Copier 2: FAX 3: Copier/FAX 4: Printer 5: Copier/Printer 6: Printer/FAX 7: Copier/Printer/FAX	1
390	Counter	Number of errors in HDD (Copier)	PPC	0 <8 digits>	SYS	The number of error is reset at HDD formatting.	2
391	Counter	Number of errors in HDD (FAX)	FAX	0 <8 digits>	SYS		2
392	Counter	Number of errors in HDD (Scanning)	SCN	0 <8 digits>	SYS		2
393	Counter	Number of errors in HDD (Printer)	PRT	0 <8 digits>	SYS		2
398	Laser	Number of polygonal motor rotational speed switching	ALL	0 <8 digits>	M	Counts the number of time the polygonal motor has switched its rotational speed between normal rotation and standby rotation	2
399	Laser	Accumulated time of polygonal motor at normal rotation	ALL	0 <8 digits>	M	Accumulates the time the polygonal motor has rotated at normal rotation.	2

Setting mode (08) <e-STUDIO350/450>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
400	Fuser	Fuser unit error status counter	ALL	0 <0-19>	M	0: No error 1: C411(Once) 2: C410(consecutively occurred) 3: - 4: - 5: C440 6: C450 7: C440 8: C450 9: C440 10: C470 11: C470 12: C480 13: C480 14: C470 15: C480 16: C490 17: C470 18: C480 19: C490	1
409	Fuser	Fuser roller temperature at a energy saver mode (Center thermistor)	ALL	0 <0-13>	M	0: OFF 1: 40°C 2: 50°C 3: 60°C 4: 70°C 5: 80°C 6: 90°C 7: 100°C 8: 110°C 9: 120°C 10: 130°C 11: 140°C 12: 150°C 13: 160°C	1
410	Fuser	Fuser roller temperature during printing (Center thermistor/Plain paper)	ALL	12 <0-14>	M	0: 140°C 1: 145°C 2: 150°C 3: 155°C 4: 160°C 5: 165°C 6: 170°C 7: 175°C 8: 180°C 9: 185°C 10: 190°C 11: 195°C 12: 200°C 13: 205°C 14: 210°C	1
411	Fuser	Fuser roller temperature on standby (Center thermistor)	ALL	12 <0-12>	M	0: 140°C 1: 145°C 2: 150°C 3: 155°C 4: 160°C 5: 165°C 6: 170°C 7: 175°C 8: 180°C 9: 185°C 10: 190°C 11: 195°C 12: 200°C	1
412	Fuser	Fuser roller temperature during printing (Center thermistor/Thick paper 3)	ALL	12 <0-14>	M	1: 140°C 1: 145°C 3: 150°C 4: 155°C 5: 160°C 6: 165°C 7: 170°C 8: 175°C 9: 180°C 10: 185°C 11: 190°C 12: 195°C 13: 200°C 14: 210°C	1
413	Fuser	Fuser roller temperature during printing (Center thermistor/Thick paper 1)	ALL	12 <0-14>	M	0: 140°C 1: 145°C 2: 150°C 3: 155°C 4: 160°C 5: 165°C 6: 170°C 7: 175°C 8: 180°C 9: 185°C 10: 190°C 11: 195°C 12: 200°C 13: 210°C	1
414	Developer	Toner density correction-setting	ALL	0 <0-8>	M	0: Invalid 1: +3bit 2: +6bit 3: +9bit 4: +12bit 5: -3bit 6: -6bit 7: -9bit 8: -12bit	1

Setting mode (08) <e-STUDIO350/450>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
417	Fuser	Pre-running time for first printing (Thick paper 3)	ALL	0 <0-15>	M	0: Invalid 1: 1 sec. 2: 2 sec. 3: 3 sec. 4: 4 sec. 5: 5 sec. 6: 6 sec. 7: 7 sec. 8: 8 sec. 9: 9 sec. 10: 10 sec. 11: 12 sec. 12: 14 sec. 13: 16 sec. 14: 18 sec. 15: 20 sec.	1
419	Image Processing	Black band pattern between sheets of paper	ALL	0 <0-20>	M	Sets whether or not a black band pattern is formed on the drum between two sheets of paper being transported. 0: Invalid 1 to 20: Black band width (Unit: mm)	1
420	Fuser	Pre-running time at warming-up	ALL	JPN: 3 UC: 4 EUR: 4 <0-10>	M	0: Invalid 1: 1 sec. 2: 2 sec. 3: 3 sec. 4: 4 sec. 5: 5 sec. 6: 6 sec. 7: 7 sec. 8: 8 sec. 9: 9 sec. 10: 10 sec.	1
437	Fuser	Fuser roller temperature during printing (Center thermistor /Thick paper 2)	ALL	12 <0-14>	M	0: 140°C 1: 145°C 2: 150°C 3: 155°C 4: 160°C 5: 165°C 6: 170°C 7: 175°C 8: 180°C 9: 185°C 10: 190°C 11: 195°C 12: 200°C 13: 205°C 14: 210°C	1
438	Fuser	Fuser roller temperature during printing (Center thermistor/OHP film)	ALL	12 <0-14>	M	0: 140°C 1: 145°C 2: 150°C 3: 155°C 4: 160°C 5: 165°C 6: 170°C 7: 175°C 8: 180°C 9: 185°C 10: 190°C 11: 195°C 12: 200°C 13: 205°C 14: 210°C	1
439	Fuser	Pre-running time for first printing (Thick paper 2)	ALL	0 <0-15>	M	0: Invalid 1: 1 sec. 2: 2 sec. 3: 3 sec. 4: 4 sec. 5: 5 sec. 6: 6 sec. 7: 7 sec. 8: 8 sec. 9: 9 sec. 10: 10 sec. 11: 12 sec. 12: 14 sec. 13: 16 sec. 14: 18 sec. 15: 20 sec.	1

Setting mode (08) <e-STUDIO350/450>								
Code	Classifi- cation	Items		Func- tion	Default <Accept- able value>	RAM	Contents	Pro- cedur e
440	Fuser	Pre-running time for first printing (Plain paper)		ALL	0 <0-15>	M	0: Invalid 1: 1 sec. 2: 2 sec. 3: 3 sec. 4: 4 sec. 5: 5 sec. 6: 6 sec. 7: 7 sec. 8: 8 sec. 9: 9 sec. 10: 10 sec. 11: 12 sec. 12: 14 sec. 13: 16 sec. 14: 18 sec. 15: 20 sec.	1
441	Fuser	Pre-running time for first printing (Thick paper 1)		ALL	0 <0-15>	M	0: Invalid 1: 1 sec. 2: 2 sec. 3: 3 sec. 4: 4 sec. 5: 5 sec. 6: 6 sec. 7: 7 sec. 8: 8 sec. 9: 9 sec. 10: 10 sec. 11: 12 sec. 12: 14 sec. 13: 16 sec. 14: 18 sec. 15: 20 sec.	1
455	Image process- ing	Toner supply amount cor- rection setting		ALL	0 <0-2>	M	Corrects the period of the toner motor rotation time during toner sup- ply. 0: 100% 1: 90% 2: 80%	1
462	RADF	Setting for switchback operation to copy mixed- sized original on RADF		ALL	0<0-1>	SYS	Sets whether or not detecting the original length by transporting without scanning in reverse when finding A4-R/FOLIO paper. 0: Invalid- Judges as A4-R without trans porting in reverse with no scanning. 1: Valid- Judges whether it is A4-R or FOLIO size by transporting in reverse with no scanning. * The original is transported in reverse with no scanning when detecting LT-LG size-paper in LT, regardless of this setting.	1
463-0	Paper feeding	Feeding retry number set- ting (upper drawer)	Plain paper	ALL	5 <0-5>	M	Sets the number of times of the feeding retry from the upper drawer.	4
463-1			Others	ALL	5 <0-5>	M		4
464-0	Paper feeding	Feeding retry number set- ting (lower drawer)	Plain paper	ALL	5 <0-5>	M	Sets the number of times of the feeding retry from the lower drawer.	4
464-1			Others	ALL	5 <0-5>	M		4

Setting mode (08) <e-STUDIO350/450>								
Code	Classification	Items		Function	Default <Acceptable value>	RAM	Contents	Procedure
465-0	Paper feeding	Feeding retry number setting (PFP upper drawer)	Plain paper	ALL	5 <0-5>	M	Sets the number of times of the feeding retry from the PFP upper drawer.	4
465-1			Others	ALL	5 <0-5>	M		4
466-0	Paper feeding	Feeding retry number setting (PFP lower drawer)	Plain paper	ALL	5 <0-5>	M	Sets the number of times of the feeding retry from the PFP lower drawer.	4
466-1			Others	ALL	5 <0-5>	M		4
467-0	Paper feeding	Feeding retry number setting (bypass feed)	Plain paper	ALL	5 <0-5>	M	Sets the number of times of the feeding retry from the bypass tray.	4
467-1			Others	ALL	5 <0-5>	M		4
468-0	Paper feeding	Feeding retry number setting (LCF)	Plain paper	ALL	5 <0-5>	M	Sets the number of times of the feeding retry from the LCF.	4
468-1			Others	ALL	5 <0-5>	M		4
469	Fan	Speed switching for sub-separation fan		ALL	0 <0-1>	M	0: High speed 1: Low speed	1
471	Paper feeding	Paper size (Post card) feeding/width wise direction		ALL	148/100 <148-432/100-297>	M	* Post card is supported only for JPN model.	10
472	Fan	Speed switching for middle fan		ALL	0 <0-1>	M	0: High speed 1: Low speed	1
478	Laser	Judged number of polygonal motor rotation error (Normal rotation)		ALL	0 <0-1>	M	Displays the error [CA10] when the set number of rotation error has been detected. 0: 2 times 1: 12 times	1
479	Laser	Judged number of polygonal motor rotation error (At acceleration/deceleration)		ALL	0 <0-1>	M	0: Waiting time for polygonal motor rotation overshooting 0.6 sec. 1: Waiting time for polygonal motor rotation overshooting 2.2 sec.	1
480	Paper feeding	Default setting of paper source		PPC	0 <0-5>	SYS	0: A4/LT 1: LCF 2: Upper drawer 3: Lower drawer 4: PFP upper drawer 5: PFP lower drawer	1



Setting mode (08) <e-STUDIO350/450>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
481	Paper feeding	Automatic change of paper source	PPC	1 <0-2>	SYS	Sets whether or not changing the drawer automatically to the other drawer with the paper of the same size when paper in the selected drawer has run out. 0: OFF 1: ON (Changes to the drawer with the same paper direction and size: ex. A4 to A4) 2: ON (Changes to the drawer with the same paper size. Paper with the different direction is acceptable as long as the size is the same: ex., A4 to A4-R, LT-R to LT. "1" is applied when the staple/holepunch is specified.)	1
482	Paper feeding	Feeding retry setting	ALL	0 <0-1>	M	0: ON 1: OFF	1
483	Laser	Pre-running rotation of polygonal motor	ALL	0 <0-2>	SYS	Sets whether or not switching the polygonal motor from the standby rotation to the normal rotation when the original is set on the RADF or the platen cover is opened. 0: Valid (when using RADF and the original is set manually) 1: Invalid 2: Valid (when using RADF only)	1
484	Laser	Polygonal motor rotational status switching at the Auto Clear Mode	ALL	0 <0-1>	SYS	Sets whether or not switching the polygonal motor from the normal rotation to the standby rotation at the Auto Clear Mode. 0: Valid 1: Invalid	1
485	Laser	Rotational status of polygonal motor on standby	ALL	0 <0-1>	SYS	Sets the rotational status of polygonal motor on standby. 0: Rotated (The rotational speed is set at 08-490.) 1: Stopped	1

Setting mode (08) <e-STUDIO350/450>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
486	Laser	Timing of auto-clearing of polygonal motor pre-running rotation	ALL	0 <0-2>	SYS	Switches the polygonal motor to the standby rotation when a certain period of time has passed from the pre-running. At this code, the period to switch the status to the standby rotation is set. 0: 15 sec. 1: 30 sec. 2: 45 sec. * This setting is effective when "0" or "2" is set at 08-483.	1
488	Laser	Setting of polygonal motor type	ALL	3 <2-3>	M	Set the type of polygonal motor. 2: 2 clock type 3: 3 clock type	1
489	Laser	Polygonal motor rotation number on standby	ALL	5 <0-5>	M	0: 38090.55rpm 1: 35000rpm 2: 30000rpm 3: 25000rpm 4: 20000rpm 5: 10000rpm	1
490	Laser	Polygonal motor rotation in the energy saving mode	ALL	0 <0-1>	M	0: Stopped 1: 10000rpm	1
491	Transfer	Transfer charger bias correction (L) at duplexing	ALL	165 <0-255>	M	Corrects the transfer charger bias output value of the leading edge area of paper at duplexing.	1
492	Transfer	Transfer charger bias correction (H) at duplexing	ALL	106 <0-255>	M	Corrects the transfer charger bias output value of the center area of paper at duplexing.	1
493	Transfer	Transfer charger bias correction (L) at duplexing	ALL	128 <0-255>	M	Corrects the transfer charger bias output value of the trailing edge area of paper at duplexing.	1
502	Image	Error diffusion and dither setting at photo mode	PPC	1 <0-1>	SYS	Sets the image reproduction method at photo mode. 0: Error diffusion 1: Dither	1
503	User interface	Default setting of density adjustment	PPC	0 <0-1>	SYS	0: Automatic 1: Manual (Center)	1
508	Image	Custom Mode setting	PPC	0 <0-3>	SYS	0: Not used 1: Custom Mode 1 when Text/Photo is set as a base 2: Custom Mode 2 when Text is set as a base 3: Custom Mode 3 when Photo is set as a base	1

Setting mode (08) <e-STUDIO350/450>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
509	Image	Error diffusion and dither setting at a photo mode (Custom Mode)	PPC	1 <0-1>	SYS	Switches the image processing method when Custom Mode 3 is set. 0: Error diffusion 1: Dither	1
526	Fuser	Pre-running time for first printing (OHP film)	ALL	6 <0-15>	M	0: Invalid 1: 0 sec. 2: 2 sec. 3: 3 sec. 4: 4 sec. 5: 5 sec. 6: 6 sec. 7: 7 sec. 8: 8 sec. 9: 9 sec. 10: 10 sec. 11: 12 sec. 12: 14 sec. 13: 16 sec. 14: 18 sec. 15: 20 sec.	1
550	Image	Default setting of Original mode	PPC	0 <0-3>	SYS	0: Text/Photo 1: Photo 2: Text 3: Custom Mode	1
601	User interface	Setting for the EnergySaving Mode	ALL	0 <0-1>	SYS	0: Auto Shut Off Mode 1: Sleep Mode	1
602	User interface	Screen setting for Auto power Save Mode and Auto Shut OFF Mode	ALL	EUR:0 UC:1 JPN:1 <0-1>	SYS	0: OFF 1: ON	1
603	User interface	Setting for automatic duplexing mode	ALL	0 <0-3>	SYS	0: Invalid 1: Single-sided to duplex copying 2: Double-sided to duplex copying 3: User selection	1
604	User interface	Default setting for APS/AMS	ALL	0 <0-2>	SYS	0: APS (Automatic Paper Selection) 1: AMS (Automatic Magnification Selection) 2: Not selected	1
605	User interface	Centering printing of primary/secondary direction at AMS	PPC	1 <0-1>	SYS	0: Invalid 1: Valid	1
607	User interface	Default setting of RADF mode	PPC	0 <0-1>	SYS	0: Continuous feeding (by pressing the [START] button) 1: Single feeding (by setting original on the tray)	1
610	User interface	Key touch sound of control panel	ALL	1 <0-1>	SYS	0: OFF 1: ON	1
611	User interface	Book type original priority	PPC	0 <0-1>	SYS	0: Left page to right page 1: Right page to left page	1
612	General	Summer time mode	ALL	0 <0-1>	SYS	0: Not summer time 1: Summer time	1

Setting mode (08) <e-STUDIO350/450>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
613	User interface	Paper size selection for [OTHER] button	PPC	EUR: FOLIO UC: COMP JPN: A5-R	SYS	Press the icon on the LCD to select the size.	9
614	Network	Local I/F time-out period	PRT	6 <1-50>	SYS	Sets the period of time when the job is judged as completed in local I/F printing (USB or parallel). 1: 1.0 sec. 2: 1.5 sec. -50: 25.5 sec. (in increments of 0.5 sec.)	1
615	General	Size information of main memory and page memory	ALL	-	SYS	Displays the sizes of the main memory and page memory. Enables to check if each memory is properly recognized.	2
617	User interface	Print setting without department code	ALL	1 <0-2>	SYS	0: Printed forcibly 1: Not printed 2: Deleted forcibly	1
618	User interface	Default setting when mixed size originals are set on RADF	PPC	0 <0-1>	SYS	0: Scanned as all in same size 1: Scanned as each original size	1
619	Paper feeding	Time lag before Auto Job Start of bypass feeding	ALL	4 <0-10>	SYS	Sets the time taken to add paper feeding when paper in the bypass tray has run out during the bypass feed copying. 0: Paper is not drawn in unless the [START] button is pressed. 1-10: Setting value x 0.5sec.	1
620	User interface	Department management setting (Copier)	PPC	1 <0-1>	SYS	0: Invalid 1: Valid	1
621	User interface	Department management setting (FAX)	FAX	1 <0-1>	SYS	0: Invalid 1: Valid	1
622	User interface	Department management setting (Printer)	PRT	1 <0-1>	SYS	0: Invalid 1: Valid	1
623	User interface	Department management setting (Scanner)	SCN	1 <0-1>	SYS	0: Invalid 1: Valid	1
624	User interface	Department management setting (List print)	PRT	1 <0-1>	SYS	0: Invalid 1: Valid	1
625	User interface	Blank copying prevention mode during RADF jamming	PPC	0 <0-1>	SYS	0: OFF 1: ON (Start printing when the scanning of each page is finished)	1
627	User interface	Rotation printing at the nonsorting	ALL	0 <0-1>	SYS	0: Not rotating 1: Rotating	1

Setting mode (08) <e-STUDIO350/450>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
628	User interface	Direction priority of original image	PPC	0 <0-1>	SYS	0: Automatic 1: Portrait	1
629	User interface	Department management setting	ALL	0 <0-1>	SYS	0: Invalid 1: Valid	1
633	Data overwrite kit	Releasing F200 service call	ALL	0 <0-2>	SYS	0: Not used 1: Board installed (GP-1050) 2: Service call	1
634	User interface	Inner receiving tray priority at Non-sort Mode	ALL	0 <0-1>	SYS	0: Normal 1: Inner receiving tray	1
636	User interface	Width setting for image shift copying (linkage of front side and back side)	PPC	0 <0-1>	SYS	0: ON 1: OFF	1
638	General	Time differences	ALL	EUR: 24 UC: 40 JPN: 6 <0-47>	SYS	0: +12.0h 1: +11.5h 2: +11.0h 3: +10.5h 4: +10.0h 5: 9.5h 6: +9.0h 7: +8.5h 8: +8.0h 9: +7.5h 10: +7.0h 11: +6.5h 12: +6.0h 13: +5.5h 14: +5.0h 15: +4.5h 16: +4.0h 17: +3.5h 18: +3.0h 19: +2.5h 20: +2.0h 21: +1.5h 22: +1.0h 23: +0.5h 24: 0.0h 25: -0.5h 26: -1.0h 27: -1.5h 28: -2.0h 29: -2.5h 30: -3.0h 31: -3.5h 32: -4.0h 33: -4.5h 34: -5.0h 35: -5.5h 36: -6.0h 37: -6.5h 38: -7.0h 39: -7.5h 40: -8.0h 41: -8.5h 42: -9.0h 43: -9.5h 44: -10.0h 45: -10.5h 46: -11.0h 47: -11.5h	1
640	User interface	Date display format	ALL	EUR:1 UC:2 JPN:0 <0-2>	SYS	0: YYYY.MM.DD. 1: DD.MM.YYYY 2: MM.DD.YYYY	1
641	User interface	Automatic Sorting Mode setting (RADF)	PPC	2 <0-4>	SYS	0: Invalid 1: STAPLE 2: SORT 3: GROUP 4: ROTATE SORT	1
642	User interface	Default setting of Sorter Mode	PPC	0 <0-4>	SYS	0: NON-SORT 1: STAPLE 2: SORT 3: GROUP 4: ROTATE SORT	1

Setting mode (08) <e-STUDIO350/450>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
645	User interface	Correction of reproduction ratio in editing copy	PPC	10 <0-10>	SYS	Sets the reproduction ratio for the "X in 1" printing (including magazine sort) to the "Reproduction ratio x Correction ratio". 0: 90% 1: 91% 2: 92% 3: 93% 4: 94% 5: 95% 6: 96% 7: 97% 8: 98% 9: 99% 10: 100%	1
646	User interface	Image position in editing	PPC	2 <0-3>	SYS	Sets the page pasted position for "X in 1" to the upper left corner/center. 0: PPC:Cornering/ PRT:Cornering 1: PPC:Centering/ PRT:Cornering 2: PPC:Cornering/ PRT:Centering 3: PPC:Centering/ PRT:Centering	1
647	User interface	Direction priority for date and time stamp printing	ALL	0 <0-1>	SYS	0: Short edge 1: Long edge	1
648	User interface	Returning finisher tray when printing is finished	ALL	0 <0-1>	SYS	Sets whether or not returning the finisher tray to the bin 1 when printing is finished. 0: Not returned 1: Returned	1
649	User interface	Magazine sort setting	PPC	0 <0-1>	SYS	0: Left page to right page 1: Right page to left page	1
650	User interface	2 in 1/4 in 1 page allocating order setting	PPC	0 <0-1>	SYS	0: Horizontal 1: Vertical	1
651	User interface	Printing format setting for Time Stamp and Page Number	PPC	2 <0-3>	SYS	Hyphen (with page number) /Dropout (with date, time and page number) 0: OFF/OFF 1: ON/OFF 2: OFF/ON 3: ON/ON  <b>Note:</b> Hyphen printing format ON: -1- OFF: 1	1
652	User interface	Cascade operation setting	PPC	0 <0-1>	SYS	0: OFF 1: ON	1
653	User interface	Cascade operation setting	PRT	0 <0-1>	SYS	0: OFF 1: ON	1
657	User interface	Direction priority for date and time stamp printing	PPC	0 <0-1>	SYS	0: Short edge 1: Long edge	1

Setting mode (08) <e-STUDIO350/450>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
658	User interface	Auto Job Start setting for bypass feed printing	PRT	0 <0-1>	SYS	Sets whether or not feeding a paper automatically into the equipment when it is placed on the bypass tray. 0: OFF (Press the [START] button to start feeding.) 1: ON (Automatic feeding)	1
659	User interface	Auto Job start setting for bypass feed printing	PPC	1 <0-1>	SYS	Sets whether or not feeding a paper automatically into the equipment when it is placed on the bypass tray. 0: OFF (Press the [START] button to start feeding.) 1: ON (Automatic feeding)	1
660	Network	Auto-forwarding setting of received FAX	ALL	0 <0-1>	SYS	0: Invalid1: Valid	1
661	Network	Auto-forwarding setting of received E-mail	ALL	0 <0-1>	SYS	0: Invalid1: Valid	1
662	General	Clearing of SMS partition	ALL	-	SYS	Clears SMS partition. (Performs when the service call [F106] has occurred.)	3
665	General	M/SYS all clearing	ALL	-	M/ SYS	Initializes all the adjustment modes and the setting modes.	3
666	General	/SHA partition clearing	ALL	-	SYS	Initializes the Electronic Filing.	3
667	General	/SHA partition clearing	ALL	-	SYS	Initializes the shared folder.	3
669	General	System all clearing	ALL	-	SYS	Initializes system NVRAM area.	3
670	General	HDD diagnostic menu display	ALL	-	SYS	Display the HDD information	2
671	User interface	Size indicator	ALL	0 <0-1>	SYS	0: Invalid 1: Valid	1

Setting mode (08) <e-STUDIO350/450>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
672	General	Initialization of department management information	-	-	SYS	Initializing of the department management information * Key in the code and press the [INITIALIZE] button to perform the initialization. If the area storing the department management information is destroyed for some reason, "Enter Department Code" is displayed on the control panel even if the department management function is not set on. In this case, initialize the area with this code. This area is normally initialized at the factory.	3
673	General	Trial period setting	ALL	254 <1-60>	SYS	Sets the trial period from 1 to 60 days. This setting is effective only when the default value is "254". Once the default value is set, this value is only used for a reference.	1
678	General	Setting of banner advertising display	ALL	0 <0-1>	SYS	Sets whether or not displaying the banner advertising. The setting contents of 08-679 and 08-680 are displayed at the time display section on the right top of the screen. When both are set, each content is displayed alternately. 0: Not displayed 1: Displayed	1
679	General	Banner advertising display 1	ALL	-	SYS	Maximum 27 letters (one-byte character)	11
680	General	Banner advertising display 2	ALL	-	SYS	Maximum 27 letters (one-byte character)	11
681	General	Display of [BANNER MESSAGE] button	ALL	0 <0-1>	SYS	0: Not displayed 1: Displayed * This button enables the entry of "Banner advertising display 1 (08-679)" and "Banner advertising display 2 (08-680)" on the control panel.	1
682	Use interface	Offsetting between jobs	ALL	1 <0-1>	SYS	0: Invalid 1: Valid	1



Setting mode (08) <e-STUDIO350/450>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
683	General	Duplex printing setting when coin controller is used	ALL	1 <0-1>	SYS	When the duplex printing is short paid with a coin controller, reverse side of the original is not printed and is considered as a defect (printing job may be cleared). To solve this problem, the selection of printing method is enabled with this setting. 0: Invalid (Both sides printed) 1: Valid (Only one side printed)	1
684	General	Rebuilding all databases	ALL	-	SYS	Rebuilds all databases.	3
685	General	Rebuilding all databases related to Address Book	ALL	-	SYS	Rebuilds all databases related to the Address Book.	3
686	General	Rebuilding all databases related to log	ALL	-	SYS	Rebuilds all databases related to the logs.	3
689	FAX	Adaptation of paper source priority selection	FAX	0 <0-1>	SYS	0: Not subjected for APS judgment 1: Subjected for APS judgment	1
690	General	HDD formatting	ALL	- <2>	SYS	2: Normal formatting	7
691	General	HDD type display	ALL	- <0-2>	SYS	0: Not formatted 1: Not used 2: Normal format	7
692	Maintenance	Performing panel calibration	ALL	-	SYS	Performs the calibration of the pressing position on the touch panel (LCD screen). The calibration is performed by pressing 2 reference positions after this code is started up.	1
693	General	Initialization of NIC information	ALL	-	SYS	Returns the value to the factory shipping default value.	3
694	General	Performing HDD testing	ALL	-	SYS	Checks the bad sector.	3
695	General	Sets when the end of trial period is notified.	PRT/ SCN	3 <0-59>	SYS	Sets when the end of trial period is notified. 0: On the day it ends 1 to 59: n days before	1
696	Scrambler board	Installation of scrambler board (Option)	ALL	0 <0-1>	-	0: Not installed 1: Installed	2
697	Paper feeding	Paper type priority	PPC	1 <1-2>	SYS	Sets the paper type priority during copying. 1: Plain paper 2: Thick paper 1	1

Setting mode (08) <e-STUDIO350/450>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
698	Scrambler board	Entering the key code for scrambler board	ALL	-	-	Start up this code and have the user enter the key code. Once the key code has been set, this code cannot be set again on security grounds.	5
699	Scrambler board	Erasing all data in HDD	ALL	-	-	This setting is effective only when the scrambler board is installed.	3
701	FAX	Destination setting for FAX	FAX	EUR: 5 UC: 4 JPN: 0 Other: 1 <0-25>	SYS	0: Japan 1: Asia 2: Australia 3: Hong Kong 4: U.S.A./Canada 5: Germany 6: U.K. 7: Italy 8: Belgium 9: Netherlands 10: Finland 11: Spain 12: Austria 13: Switzerland 14: Sweden 15: Denmark 16: Norway 17: Portugal 18: France 19: Greece 20: Poland 21: Hungary 22: Czech 23: Turkey 24: South Africa 25: Taiwan	1
702	Maintenance	Remote-controlled service function	ALL	2 <0-2>	SYS	0: Valid (Remote-controlled server) 1: Valid (L2) 2: Invalid	1
703	Maintenance	Remote-controlled service HTTP server URL setting	ALL	-	SYS	Maximum 256 Bytes	11
707	Maintenance	Remote-controlled service HTTP initially-registered server URL setting	ALL	https:// device.mf p-support.com: 443/ device/fir- streg- ist.ashx	SYS	Maximum 256 Bytes	11
710	Maintenance	Short time interval setting of recovery from Emergency Mode	ALL	24 <1-48>	SYS	Sets the time interval to recover from the Emergency Mode to the Normal Mode. (Unit: Hour)	1
711	Maintenance	Short time interval setting of Emergency Mode	ALL	60 <30-360>	SYS	Unit: Minute	1

Setting mode (08) <e-STUDIO350/450>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
715	Maintenance	Remote-controlled service periodical polling timing (Hour/Hour/Minute/Minute)	ALL	1230	SYS	0 (0:00) to 2359 (23:59)	1
716	Maintenance	Remote-controlled service Writing data of self-diagnostic code	ALL	0 <0-1>	SYS	0: Prohibited 1: Accepted	1
717	Maintenance	Remote-controlled service response waiting time (Timeout)	ALL	3 <1-30>	SYS	Unit: Minute	1
718	Maintenance	Remote-controlled service initial registration	ALL	0 <0-2>	SYS	0: OFF 1: Start 2: Only certification is scanned	1
719	Maintenance	Remote-controlled service tentative password	ALL	-	SYS	Maximum 10 letters	11
720	Maintenance	Status of remote-controlled service initial registration (Display only)	ALL	0 <0-1>	SYS	0: Not registered 1: Registered	2
721	Maintenance	Service center call function	ALL	2 <0-2>	SYS	0: OFF 1: Notifies all service calls 2: Notifies all but paper jams	1
723	Maintenance	Service center call HTTP server URL setting	ALL	-	SYS	Maximum 256 letters	11
726	Maintenance	HTTP proxy setting	ALL	1 <0-1>	SYS	0: Valid 1: Invalid	1
727	Maintenance	HTTP proxy IP address setting	ALL	-	SYS	000.000.000.000 - 255.255.255.255 (Default value 000.000.000.000)	11
728	Maintenance	HTTP proxy port number setting	ALL	0 <0-65535>	SYS		1
729	Maintenance	HTTP proxy ID setting	ALL	-	SYS	Maximum 30 letters	11
730	Maintenance	HTTP proxy password setting	ALL	-	SYS	Maximum 30 letters	11
731	Maintenance	HTTP proxy panel display	ALL	1 <0-1>	SYS	0: Valid 1: Invalid	1
732	Maintenance (Remote)	Automatic ordering function of supplies	ALL	3 <0-3>	SYS	0: Ordered by FAX 1: Ordered by E-mail 2: Ordered by HTTP 3: OFF	1
733	Maintenance (Remote)	Automatic ordering function of supplies FAX number	ALL	-	SYS	Maximum 32 digits Enter hyphen with the [Monitor/Pause] button	11
734	Maintenance (Remote)	Automatic ordering function of supplies E-mail address	ALL	-	SYS	Maximum 192 letters List: 256 digits	11
738	Maintenance (Remote)	Automatic ordering function of supplies User's name	ALL	-	SYS	Maximum 50 letters	11
739	Maintenance (Remote)	Automatic ordering function of supplies User's telephone number	ALL	-	SYS	Maximum 32 digits Enter hyphen with the [Monitor/Pause] button	11

Setting mode (08) <e-STUDIO350/450>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
740	Maintenance (Remote)	Automatic ordering function of supplies User's E-mail address	ALL	-	SYS	Maximum 192 letters List: 256 digits	11
741	Maintenance (Remote)	Automatic ordering function of supplies User's address	ALL	-	SYS	Maximum 100 letters	11
742	Maintenance (Remote)	Automatic ordering function of supplies Service number	ALL	-	SYS	Maximum 5 digits	11
743	Maintenance (Remote)	Automatic ordering function of supplies Service technician's name	ALL	-	SYS	Maximum 50 letters	11
744	Maintenance (Remote)	Automatic ordering function of supplies Service technician's telephone number	ALL		SYS	Maximum 32 digits Enter hyphen with the [Monitor/Pause] button	11
745	Maintenance (Remote)	Automatic ordering function of supplies Service technician's E-mail address	ALL	-	SYS	Maximum 192 letters List: 256 digits	11
746	Maintenance (Remote)	Automatic ordering function of supplies Supplier's name	ALL	-	SYS	Maximum 50 letters	11
747	Maintenance (Remote)	Automatic ordering function of supplies Supplier's address	ALL	-	SYS	Maximum 100 letters	11
748	Maintenance (Remote)	Automatic ordering function of supplies Notes	ALL	-	SYS	Maximum 128 letters	11
758	Maintenance (Remote)	Information about supplies Part number of toner cartridge K	ALL	-	SYS	Maximum 20 digits	11
759	Maintenance (Remote)	Information about supplies Order quantity of toner cartridge K	ALL	1 <1-99>	SYS		1
760	Maintenance (Remote)	Information about supplies Condition number of toner cartridge K	ALL	1 <1-99>	SYS		1
761	Maintenance (Remote)	Information about supplies Part number of toner bag	ALL	-	SYS	Maximum 20 digits	11
762	Maintenance (Remote)	Information about supplies Order quantity of toner bag	ALL	1 <1-99>	SYS		1
763	Maintenance (Remote)	Information about supplies Condition number of toner bag	ALL	1 <1-99>	SYS		1
765	Maintenance (Remote)	Automatic ordering supplies Display	ALL	2 <0-2>	SYS	0: Valid (FAX/Internet FAX) 1: Valid (FAX/Internet FAX/ HTTP) 2: Invalid	1

Setting mode (08) <e-STUDIO350/450>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
767	Maintenance (Remote)	Service Notification setting	ALL	0 <0-2>	SYS	Enables to set up to 3 E-mail addresses to be sent. (08-768, 777, 778) 0: Invalid 1: Valid (E-mail) 2: Valid (FAX)	1
768	Maintenance (Remote)	Destination E-mail address	ALL	-	SYS	Maximum 192 letters	11
769	Maintenance (Remote)	Total counter information transmission setting	ALL	0 <0-1>	SYS	0: Invalid 1: Valid	1
770	Maintenance (Remote)	Total counter transmission date setting	ALL	1 <1-31>	SYS	1 to 31	1
771	Maintenance (Remote)	PM counter notification setting	ALL	0 <0-1>	SYS	0: Invalid 1: Valid	1
772	Maintenance	Dealer's name	ALL	-	SYS	Maximum 100 letters Needed at initial registration	11
773	Maintenance	Login name	ALL	-	SYS	Maximum 20 letters Needed at initial registration	11
774	Maintenance (Remote)	Display setting of [Service Notification] button	ALL	0 <0-1>	SYS	0: Not displayed 1: Displayed	1
775	Maintenance (Remote)	Sending error contents of equipment	ALL	0 <0-1>	SYS	0: Invalid 1: Valid	1
776	Maintenance (Remote)	Setting total counter transmission interval (Hour/Hour/Minute/Minute)	ALL	-	SYS		1
777	Maintenance (Remote)	Destination E-mail address 2	ALL	-	SYS	Maximum 192 letters	11
778	Maintenance (Remote)	Destination E-mail address 3	ALL	-	SYS	Maximum 192 letters	11
779	Maintenance (Remote)	Notification format selection	ALL	0 <0-1>	SYS	0: Text 1: Text + XML data	1
780	Maintenance	Remote-controlled service polling day selection Day-1	ALL	0 <0-31>	SYS	0: OFF 1 to 31: 1st to 31st of a month	1
781	Maintenance	Remote-controlled service polling day selection Day-2	ALL	0 <0-31>	SYS	0: OFF 1 to 31: 1st to 31st of a month	1
782	Maintenance	Remote-controlled service polling day selection Day-3	ALL	0 <0-31>	SYS	0: OFF 1 to 31: 1st to 31st of a month	1

Setting mode (08) <e-STUDIO350/450>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Pro- cedure
783	Maintenance	Remote-controlled service polling day selection Day-4	ALL	0 <0-31>	SYS	0: OFF 1 to 31: 1st to 31st of a month	1
784	Maintenance	Remote-controlled service polling day selection Sunday	ALL	0 <0-1>	SYS	0: Invalid 1: Valid	1
785	Maintenance	Remote-controlled service polling day selection Monday	ALL	0 <0-1>	SYS	0: Invalid 1: Valid	1
786	Maintenance	Remote-controlled service polling day selection Tuesday	ALL	0 <0-1>	SYS	0: Invalid 1: Valid	1
787	Maintenance	Remote-controlled service polling day selection Wednesday	ALL	0 <0-1>	SYS	0: Invalid 1: Valid	1
788	Maintenance	Remote-controlled service polling day selection Thursday	ALL	0 <0-1>	SYS	0: Invalid 1: Valid	1
789	Maintenance	Remote-controlled service polling day selection Friday	ALL	0 <0-1>	SYS	0: Invalid 1: Valid	1
790	Maintenance	Remote-controlled service polling day selection Saturday	ALL	0 <0-1>	SYS	0: Invalid 1: Valid	1
794	Maintenance	Information of supplies setting of toner cartridge K	ALL	0 <0-1>	SYS	0: Invalid 1: Valid	1
795	Maintenance	Information of supplies setting of toner bag	ALL	0 <0-1>	SYS	0: Invalid 1: Valid	1
796	Maintenance	Remote-controlled service lengthened interval polling (End of month)	ALL	0 <0-1>	SYS	0: Invalid 1: Valid	1
797	Maintenance	Firmware download	ALL	0 <0-1>	SYS	0: Accepted 1: Prohibited	1
798	General	Notifying address of trialperiod end	PRT/ SCN	3 <0-3>	SYS	Sets where the end of the trial period is to be notified. 0: OFF 1: User 2: Service center 3: User and service center	1
799	General	Forcible end of trial period	PRT/ SCN	-	SYS	[CANCEL]: Cancel [EXECUTION]: Forcible end When the "Forcible end of trial period" is performed, "0" is set in the code (08-673) to end up the trial period forcibly.	1
826	Charger	Main charger bias correction (Toner saving mode)	PRT	128<0-255>	M	Corrects the value of the main charger bias adjustment (05-210).	1
840	Image control	Setting of toner density temperature control	ALL	0 <0-1>	M	0: Controlled 1: Not controlled	1

Setting mode (08) <e-STUDIO350/450>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
841	Transfer	Transfer timing correction	ALL	0 <0-7>	M	0: Standard 1: Timing 1 2: Timing 2 3: Timing 3 4: Timing 4 5: Timing 5 6: Timing 6 7: Timing 7	1
855	Fuser	Fuser roller temperature during printing (Center thermistor / Tab paper)	ALL	12 <0-14>	M	0: 140°C 1: 145°C 2: 150°C 3: 155°C 4: 160°C 5: 165°C 6: 170°C 7: 175°C 8: 180°C 9: 185°C 10: 190°C 11: 195°C 12: 200°C 13: 205°C 14: 210°C	1
856	Fuser	Pre-running time for first printing (Tab paper)	ALL	10 <0-15>	M	0: Invalid 1: 1 sec. 2: 2 sec. 3: 3 sec. 4: 4 sec. 5: 5 sec. 6: 6 sec. 7: 7 sec. 8: 8 sec. 9: 9 sec. 10: 10 sec. 11: 12 sec. 12: 14 sec. 13: 16 sec. 14: 18 sec. 15: 20 sec.	1
859	Developer	Developer bias DC correction (Toner saving mode)	PRT	128 <0-255>	M	Corrects the value of the developer bias adjustment (05-205).	1
860	Developer	Developer bias DC correction (Normal)	PRT	128 <0-255>	M	Corrects the value of the developer bias adjustment (05-205).	1
861	Developer	Developer bias DC correction (Text/Photo)	PPC	128 <0-255>	M	Corrects the value of the developer bias adjustment (05-205).	1
862	Developer	Developer bias DC correction (Text)	PPC	128 <0-255>	M	Corrects the value of the developer bias adjustment (05-205).	1
863	Developer	Developer bias DC correction (Photo)	PPC	128 <0-255>	M	Corrects the value of the developer bias adjustment (05-205).	1
864	Charger	Main charger bias correction (Normal)	PRT	128 <0-255>	M	Corrects the value of the main charger bias adjustment (05-210).	1
865	Charger	Main charger bias correction (Text/Photo)	PPC	128 <0-255>	M	Corrects the value of the main charger bias adjustment (05-210).	1
866	Charger	Main charger bias correction (Text)	PPC	128 <0-255>	M	Corrects the value of the main charger bias adjustment (05-210).	1
867	Charger	Main charger bias correction (Photo)	PPC	128 <0-255>	M	Corrects the value of the main charger bias adjustment (05-210).	1
868	Transfer	Transfer charger bias correction (H)	ALL	128 <0-255>	M	Corrects the transfer charger bias output value of the leading edge area of paper.	1

Setting mode (08) <e-STUDIO350/450>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
869	Transfer	Transfer charger bias correction (L)	ALL	84 <0-255>	M	Corrects the transfer charger bias output value of the trailing edge area of paper.	1
872	Laser	Laser power correction (Normal)	PRT	128 <0-255>	M	Corrects the value of the laser power adjustment (05-286).	1
873	Laser	Laser power correction (Text/Photo)	PPC	128 <0-255>	M	Corrects the value of the laser power adjustment (05-286).	1
875	Laser	Laser power correction (Toner saving mode)	PRT	128 <0-255>	M	Corrects the value of the laser power adjustment (05-286).	1
876	Laser	Laser power correction (Text)	PPC	128 <0-255>	M	Corrects the value of the laser power adjustment (05-286).	1
877	Laser	Laser power correction (Photo)	PPC	128 <0-255>	M	Corrects the value of the laser power adjustment (05-286).	1
900	Version	System firmware ROM version	ALL	-	-	JPN: T360SY0JXXX UC: T360SY0UXXX EUR: T360SY0EXXX Others: T360SY0XXXX	2
903	Version	Engine ROM version	ALL	-	-	360M-XXX	2
905	Version	Scanner ROM version	ALL	-	-	360S-XXX	2
907	Version	RADF ROM version	ALL	-	-	DF-XXXX	2
908	Version	Finisher ROM version	ALL	-	-	SDL-XX FIN-XX	2
915	Version	FAX board ROM version	FAX	-	-	F562-XXX	2
916	Version	NIC board ROM version	ALL	-	-	X.XXX	2
920	Version	FROM basic section software version	ALL	-	-	VX.XX/X.XX	2
921	Version	FROM internal program	ALL	-	-	VXXX.XXX X	2
922	Version	UI data fixed section version	ALL	-	-	VXXX.XXX X	2
923	Version	UI data common section version	ALL	-	-	VXXX.XXX X	2
924	Version	Version of UI data language 1 in HDD	ALL	-	-	VXXX.XXX X	2
925	Version	Version of UI data language 2 in HDD	ALL	-	-	VXXX.XXX X	2
926	Version	Version of UI data language 3 in HDD	ALL	-	-	VXXX.XXX X	2
927	Version	Version of UI data language 4 in HDD	ALL	-	-	VXXX.XXX X	2
928	Version	Version of UI data language 5 in HDD	ALL	-	-	VXXX.XXX X	2
929	Version	Version of UI data language 6 in HDD	ALL	-	-	VXXX.XXX X	2
930	Version	Version of UI data in FROM displayed at power-ON	ALL	-	-	VXXX.XXX X	2
931	Version	Version of UI data language 7 in HDD	ALL	-	-	VXXX.XXX X	2
933	Version	Web data whole version	ALL	-	-	VXXX.XXX X	2



Setting mode (08) <e-STUDIO350/450>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
934	Version	Web UI data in HDD Version: Language 1	ALL	-	-	VXXX.XXX X	2
935	Version	Web UI data in HDD Version: Language 2	ALL	-	-	VXXX.XXX X	2
936	Version	Web UI data in HDD Version: Language 3	ALL	-	-	VXXX.XXX X	2
937	Version	Web UI data in HDD Version: Language 4	ALL	-	-	VXXX.XXX X	2
938	Version	Web UI data in HDD Version: Language 5	ALL	-	-	VXXX.XXX X	2
939	Version	Web UI data in HDD Version: Language 6	ALL	-	-	VXXX.XXX X	2
944	Version	HD version	ALL	-	-	JPN: T360HD0JXXX UC: T360HD0UXXX EUR: T360HD0EXXX Others: T360HD0XXXX	2
945	Network	Two-way setting of Raw- Port 9100	ALL	1 <1-2>	UTY	1: Valid 2: Invalid	12
947	General	Initialization after software version upgrade	ALL	-	-	Perform this code when the software in this equipment has been upgraded.	3
948	General	Mode setting by pressing [Energy Saver] button for a while	ALL	0 <0-1>	SYS	Sets the mode to enter when the [Energy Saver] button is pressed for a while.0: Sleep Mode1: Auto Shut Off Mode	1
949	General	Automatic interruption page setting during black printing	ALL	0 <0-100>	SYS	Sets the number of pages to interrupt the printing automatically. 0-100: 0 to 100 pages	1
950	Electronic filing	Start-up method of Elec- tronic Filing	ALL	0 <0-3>	SYS	Sets the start-up method of the Elec- tronic Filing. 0: Standard 1: Forced start-up (Not recovered) 2: Forced start-up (Recovered) 3: Data update	1
953	User interface	Access code entry for Electronic Filing printing	ALL	0 <0-1>	SYS	0: Renewed automati- cally 1: Enter every time	1
954	User interface	Clearing timing for files and Electronic Filing Agent	ALL	1 <0-1>	SYS	0: Immediately after the completion of scanning 1: Cleared by Auto Clear	1
969	User interface	Error sound	ALL	1 <0-1>	SYS	0: OFF 1: ON	1
970	User interface	Sound setting when switching to Energy Saving Mode	ALL	1 <0-1>	SYS	0: OFF 1: ON	1

Setting mode (08) <e-STUDIO350/450>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
973	Network	PCL line feed code setting	PRT	0 <0-3>	SYS	Sets the PCL line feed code. 0: Automatic setting 1: CR=CR, LF=LF 2: CR=CR+LF, LF=LF 3: CR=CR, LF=CR+LF	1
975	General	Job handling when printing is short paid with coin controller	ALL	1 <0-1>	SYS	Sets whether pause or stop the printing job when it is short paid using a coin controller. 0: Pause the job 1: Stop the job	1
976	Electronic Filing	Equipment name setting to a folder when saving files	ALL	0 <0-1>	SYS	Sets whether or not adding the equipment name to the folder when saving files. 0: Not add 1: Add	1
977	Network	Switching of extended ASCII code in catFs file-system	ALL	0 <0-1>	SYS	0: ISO8859-1 1: ISO8859-2	1
978	Network	Raw printing job (Paper feeding drawer)	PRT	0 <0-5>	SYS	0: AUTO 1: Upper drawer 2: Lower drawer 3: PFP upper drawer 4: PFP lower drawer 5: LCF	1

Setting mode (08) <e-STUDIO350/450>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedur e
979	Network	Raw printing job (PCL symbol set)	PRT	0 <0-39>	SYS	0: Roman-8 1: ISO 8859/1 Latin 1 2: ISO 8859/2 Latin 2 3: ISO 8859/9 Latin 5 4: PC-8, Code Page 437 5: PC-8 D/N, Danish/ Norwegian 6: PC-850, Multilingual 7: PC-852, Latin2 8: PC-8 Turkish 9: Windows 3.1 Latin 1 10: Windows 3.1 Latin 2 11: Windows 3.1 Latin 5 12: DeskTop 13: PS Text 14: Ventura Interna- tional 15: Ventura US 16: Microsoft Publishing 17: Math-8 18: PS Math 19: Ventura Math 20: Pi Font 21: Legal 22: ISO 4: United King- dom 23: ISO 6: ASCII 24: ISO 11 25: ISO 15: Italian 26: ISO 17 27: ISO 21: German 28: ISO 60: Danish/Nor- wegian 29: ISO 69: French 30: Windows 3.0 Latin 1 31: MC Text 32: PC Cyrillic 33: ITC Zapf Dingbats 34: ISO 8859/10 Latin 6 35: PC-775 36: PC-1004 37: Symbol 38: Windows Baltic 39: Wingdings	1
985	Elec- tronic Fil- ing	Print mode setting of mixed input source of Electronic Filing	ALL	0 <0-1>	SYS	0: Image quality priority mode 1: Function priority mode	1
986	General	Copy function setting	PPC	0 <0-1>	SYS	Sets the copy function to be invalid. 0: Valid 1: Invalid	1
988	Paper feeding	Setting of paper size switching to 13" LG	ALL	0 <0-2>	SYS	0: Not switched 1: LG→13"LG 2: FOLIO→13"LG	1
989	Scram- bler board	Scrambler board initial set- ting	ALL	-	-	Performs the initial set- ting of the scrambler board.	3

Setting mode (08) <e-STUDIO350/450>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
995	Version	Equipment number (serial number) display	ALL	0 <10 digits>	SYS	This code can be also keyed in from the adjustment mode (05- 976). 10 digits	11
999	Maintenance	FSMS total counter	ALL	0 <8 digits>	SYS	Refer to values of total counter.	1
1001	Maintenance	Reset of NIC board	ALL	3 <1-3>	NIC	1: Cold 2: Warm 3: Not reset	12
1002	Network	Selection of NIC board status information	ALL	1 <1-2>	NIC	1: Not printed out when the equipment is restarted 2: Printed out when the equipment is restarted	12
1003	Network	Speed setting of Ethernet	ALL	3 <1-3>	NIC	1: 10 MBPS 2: 100 MBPS 3: Automatic	12
1004	Network	NIC Web password	ALL	-	NIC	Writing only (Current setting is not displayed.) Maximum 31 letters	12
1005	Network	Availability of IP	ALL	1 <1-2>	NIC	1: Available 2: Not available	12
1006	Network	Address Mode	ALL	2 <1-5>	NIC	1: Fixed IP address 2: Dynamic IP address 3: Dynamic IP address without AutoIP 4: Dynamic IP address without BOOTP 5: Dynamic IP address without DHCP	12
1007	Network	Domain name	ALL	-	NIC	Maximum 96 letters	12
1008	Network	IP address	ALL	-	NIC	000.000.000.000- 255.255.255.255 (Default value 000.000.000.000)	12
1009	Network	Subnet mask	ALL	-	NIC	000.000.000.000- 255.255.255.255 (Default value 000.000.000.000)	12
1010	Network	Gateway	ALL	-	NIC	000.000.000.000- 255.255.255.255 (Default value 000.000.000.000)	12
1011	Network	Availability of IPX	ALL	1 <1-2>	NIC	1: Available 2: Not available	12
1012	Network	Network frame type	ALL	1 <1-5>	NIC	1: Automatic 2: IEEE802.3 3: Ethernet II 4: IEEE802.3 SNAP 5: IEEE802.2	12
1013	Network	Availability of NCP Burst	ALL	1 <1-2>	NIC	1: Available 2: Not available	12
1014	Network	Availability of AppleTalk	ALL	1 <1-2>	NIC	1: Available 2: Not available	12

Setting mode (08) <e-STUDIO350/450>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
1015	Network	Zone setting of AppleTalk	ALL	*	NIC	Maximum 32 letters *: Wildcard character	12
1016	Network	Availability of LDAP	ALL	1 <1-2>	NIC	1: Available 2: Not available	12
1017	Network	Availability of DNS	ALL	1 <1-2>	NIC	1: Available 2: Not available	12
1018	Network	IP address to DNS server (Primary)	ALL	-	NIC	000.000.000.000- 255.255.255.255 (Default value 000.000.000.000)	12
1019	Network	IP address to DNS server (Secondary)	ALL	-	NIC	000.000.000.000- 255.255.255.255 (Default value 000.000.000.000)	12
1020	Network	DDNS Desired level	ALL	1 <1-5>	NIC	1: Invalid 2: Via DHCP 3: Insecure DDNS 4: Secure DDNS 5: Multi-secure DDNS	12
1021	Network	Availability of SLP	ALL	1 <1-2>	NIC	1: Available 2: Not available	12
1023	Network	NetBios name	ALL	-	UTY	Maximum 15 letters	12
1024	Network	Name of WINS server or IP address (Primary)	ALL	-	UTY	Maximum 128 letters	12
1025	Network	Name of WINS server or IP address (Secondary)	ALL	-	UTY	Maximum 128 letters	12
1026	Network	Availability of Bindery	ALL	1 <1-2>	NIC	1: Available 2: Not available	12
1027	Network	Availability of NDS	ALL	1 <1-2>	NIC	1: Available 2: Not available	12
1028	Network	Directory service context	ALL	-	NIC	Maximum 127 letters	12
1029	Network	Directory service tree	ALL	-	NIC	Maximum 47 letters	12
1030	Network	Availability of HTTP server	ALL	1 <1-2>	NIC	1: Available 2: Not available	12
1031	Network	Port number to NIC HTTP server	ALL	80 <1- 65535>	NIC		12
1032	Network	Port number to system HTTP server	ALL	8080 <1- 65535>	SYS		1
1033	Network	Availability of NIC HTTP client	ALL	2 <1-2>	NIC	1: Available 2: Not available	12
1034	Network	TCP port number to Con- troller HTTP client	ALL	80 <1- 65535>	UTY		12
1035	Network	IP address to HTTP server (Primary)	ALL	-	NIC	000.000.000.000- 255.255.255.255 (Default value 000.000.000.000)	12
1037	Network	Availability of SMTP client	ALL	1 <1-2>	NIC	1: Available 2: Not available	12
1038	Network	FQDN or IP address to SMTP server	ALL	-	NIC	Maximum 128 Bytes	12
1039	Network	TCP port number of SMTP client	ALL	25 <1- 65535>	NIC		12

Setting mode (08) <e-STUDIO350/450>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Pro- cedure
1040	Network	Availability of SMTP server	ALL	1 <1-2>	UTY	1: Available 2: Not available	12
1041	Network	TCP port number of SMTP server	ALL	25 <1-65535>	UTY		12
1042	Network	E-mail box name to SMTP server	ALL	-	UTY	Maximum 192 letters	12
1043	Network	Availability of Offramp	ALL	2 <1-2>	UTY	1: Available 2: Not available	12
1044	Network	Offramp security	ALL	1 <1-2>	UTY	1: Available 2: Not available	12
1045	Network	Printing at Offramp	ALL	1 <1-2>	UTY	1: Available 2: Not available	12
1046	Network	Availability of POP3 clients	ALL	1 <1-2>	NIC	1: Available 2: Not available	12
1047	Network	FQDN or IP address to POP3 server	ALL	-	NIC	Maximum 128 Bytes	12
1048	Network	Types of POP3 server	ALL	1 <1-3>	NIC	1: Automatic 2: POP3 3: APOP	12
1049	Network	Login name to POP3 server	ALL	-	NIC	Maximum 96 letters	12
1050	Network	Login password to POP3	ALL	-	NIC	Maximum 96 letters	12
1051	Network	E-mail reception interval (Unit: Minute)	ALL	5 <0-4096>	NIC		12
1052	Network	TCP port number of POP3 client	ALL	110 <1-65535>	NIC		12
1053	Network	Availability of FTP client	ALL	1 <1-2>	NIC	1: Available 2: Not available	12
1054	Network	FQDN or IP address to FTP server	ALL	-	NIC	Maximum 128 letters	12
1055	Network	TCP port number of FTP client	ALL	21 <1-65535>	UTY		12
1056	Network	Data port number of FTP client	ALL	0 <0-65535>	UTY		12
1057	Network	Login name to FTP server	ALL		SYS	Maximum 31 letters	11
1058	Network	Login password to FTP server	ALL	-	SYS	Maximum 31 letters	11
1059	Network	Availability of FTP server	ALL	1 <1-2>	NIC	1: Available 2: Not available	12
1060	Network	TCP port number of FTP server	ALL	21 <1-65535>	UTY		12
1061	Network	Login name to FTP client	ALL	-	SYS	Maximum 31 letters	11
1062	Network	Login password to FTP client	ALL	-	SYS	Maximum 31 letters	11
1063	Network	MIB function	ALL	1 <1-2>	NIC	1: Valid 2: Invalid	12
1065	Network	Setting of read Community	ALL	public	NIC	Maximum 31 letters	12
1066	Network	Setting of read/Write Community	ALL	private	NIC	Maximum 31 letters	12

Setting mode (08) <e-STUDIO350/450>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
1067	Network	Authentication TRAP function	ALL	1 <1-2>	NIC	1: Valid 2: Invalid	12
1068	Network	ALERTS TRAP function	ALL	1 <1-2>	NIC	1: Valid 2: Invalid	12
1069	Network	TRAP destination IP address	ALL	-	UTY	000.000.000.000- 255.255.255.255 (Default value 000.000.000.000)	12
1070	Network	Community setting of TRAP (via IP)	ALL	public	NIC	Maximum 31 letters	12
1073	Network	Availability of Raw/TCP	ALL	1 <1-2>	NIC	1: Valid 2: Invalid	12
1074	Network	TCP port number of Raw	ALL	9100 <1- 65535>	NIC		12
1075	Network	Availability of LPD client	ALL	1 <1-2>	NIC	1: Valid 2: Invalid	12
1076	Network	TCP port number of LPD	ALL	515 <1- 65535>	NIC		12
1077	Network	LPD queue name	ALL	-	NIC	Maximum 31 letters	12
1078	Network	Availability of IPP	ALL	1 <1-2>	NIC	1: Valid 2: Invalid	12
1079	Network	Availability of IPP port number "80"	ALL	1 <1-2>	NIC	1: Valid 2: Invalid	12
1080	Network	TCP port number of IPP	ALL	631 <1- 65535>	NIC		12
1081	Network	IPP printer name	ALL	-	NIC	Maximum 127 letters	12
1082	Network	IPP printer location	ALL	-	NIC	Maximum 127 letters	12
1083	Network	IPP printer information	ALL	-	NIC	Maximum 127 letters	12
1084	Network	IPP printer information (more)	ALL	-	NIC	Maximum 127 letters	12
1085	Network	Installer of IPP printer driver	ALL	-	NIC	Maximum 127 letters	12
1086	Network	IPP printer "Make and Model"	ALL	-	NIC	Maximum 127 letters	12
1087	Network	IPP printer information (more) MFGR	ALL	-	NIC	Maximum 127 letters	12
1088	Network	IPP message from operator	ALL	-	NIC	Maximum 127 letters	12
1089	Network	Availability of FTP print	ALL	1 <1-2>	NIC	1: Available 2: Not available	12
1090	Network	Printer user name of FTP	ALL	print	NIC	Maximum 31 letters	12
1091	Network	Printer user password of FTP	ALL	-	NIC	Maximum 31 letters	12
1092	Network	TCP port number to FTP print server	ALL	21 <1- 65535>	NIC		12
1093	Network	Login name to Novell print server	ALL	-	NIC	Maximum 47 letters	12
1094	Network	Login password to Novell print server	ALL	-	NIC	Maximum 31 letters	12

Setting mode (08) <e-STUDIO350/450>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
1095	Network	Name of SearchRoot server	ALL	-	NIC	Maximum 31 letters	12
1096	Network	Scan rate setting of print queue	ALL	5 <1-255>	NIC	Unit: Second	12
1097	Network	Page number limitation for printing text of received Email	ALL	5 <1-99>	UTY		12
1098	Network	MDN return mail setting when receiving E-mail	ALL	2 <1-2>	UTY	1: Valid 2: Invalid	12
1099	Network	Trap destination of IPX	ALL	-	UTY	Maximum 24 letters (Valid from 0 to 9 and from A to F)	12
1100	Network	Method of SMTP server authentication	ALL	5 <1-5>	NIC	1: Plain 2: Login 3: Cram-MD5 4: Digest MD5 5: Disable	12
1101	Network	Login name for SMTP server authentication	ALL	-	NIC	Maximum 64 letters	12
1102	Network	Login password for SMTP server authentication	ALL	-	NIC	Maximum 64 letters	12
1103	Network	Rendezvous setting	ALL	1 <1-2>	NIC	1: Valid 2: Invalid	12
1104	Network	Link local host name	ALL	MFP_ serial	NIC	Maximum 127 letters	12
1105	Network	Service name setting	ALL	Refer to contents	NIC	Maximum 63 letters <Default value> e-STUDIO350: TOSHIBA e-STUDIO350 e-STUDIO450: TOSHIBA e-STUDIO450	12
1107	Network	FTP server login name 1	ALL	Tiger	UTY	Maximum 64 letters	12
1108	Network	FTP server login password 1	ALL	Woods	UTY	Maximum 32 letters	12
1109	Network	FTP server login name 2	ALL	Shigeki	UTY	Maximum 64 letters	12
1110	Network	FTP server login password 2	ALL	Maruyama	UTY	Maximum 32 letters	12
1111	Network	POP Before SMTP setting	ALL	2 <1-2>	NIC	1: Valid 2: Invalid	12
1112	Network	Host name	ALL	MFP_ serial	NIC	Maximum 63 letters	12
1114	Network	Sending mail text of InternetFAX	ALL	1 <0-1>	SYS	0: Invalid 1: Valid	1
1117	Network	SMB time-out period	ALL	300 <1-9999>	SYS	Unit: Second	1



Setting mode (08) <e-STUDIO350/450>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
1120	Network	Backup/Restore of NIC setting information	ALL	0 <0-1>	SYS	0: Read (Reads all of the setting information in NIC and create a file NAM1B (no extension) in USB) 1: Write (Writes all of the setting information read from a file NAM1B (no extension) in USB)	12
1124	Network	Workgroup name	ALL	work-group	UTY	Maximum 15 letters	12
1130	User interface	Job Build Function	ALL	1 <0-1>	SYS	Sets the Job Build Function. 0: Invalid 1: Valid	1
1131	User interface	Maximum number of time job build performed	ALL	1000 <5-1000>	SYS	Sets the maximum number of time a job build has been performed. 5-1000: 5 to 1000 times	1
1132	General	Default screen selection of the User Function menu	ALL	1 <0-1>	SYS	Selects the default screen when entering the User Function menu by pressing the [USER FUNCTIONS] button. 0: ADDRESS 1: COUNTER	1
1135	Paper feeding	Default setting of drawers (Printer/BOX)	PRT	1 <1-5>	SYS	1: LCF 2: Upper drawer 3: Lower drawer 4: PFP upper drawer 5: PFP lower drawer	1
1136	Network	Number of lines simultaneously connectable when using SMB	ALL	13 <0-16>	SYS		1
1137	Network	Memory partition size when using Samba	ALL	12 <8-20>	SYS	8-20 M bytes	1
1138	Network	LDAP search method setting	ALL	0 <0-3>	SYS	Sets the search method when performing a LDAP search. 0: Partial match 1: Prefix match 2: Suffix match 3: Full match	1
1139	Network	LDAP authentication setting	ALL	0 <0-1>	SYS	0: Not authenticated 1: Authenticated	1
1140	User interface	Restriction of the template function with the administrator privilege	ALL	0 <0-1>	SYS	Selects the restriction of the template function usage setting. 0: No restriction 1: Only available with the administrator privilege.	1

Setting mode (08) <e-STUDIO350/450>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
1145	Maintenance (Remote)	Counter notification Remote FAX setting	ALL	-	SYS	Maximum 32 digits Enter a hyphen with the [MONITOR/PAUSE] button.	11
1372	Image processing	Heater and energizing time accumulating counter Display/0 clearing	ALL	0 <8 digits>	M	Counts up the heater control time accumulated (when power of the equipment is ON) but does not count at the Sleep Mode. When the counter value of the fuser roller is cleared, this counter value is also cleared in sync at the PM support mode.	1
1376	Image processing	Toner cartridge drive counter Number of output pages	ALL	0 <8 digits>	M	Counts the rotation number of the toner cartridge.	1
1385	Image processing	Number of output pages (Thick paper 1)	ALL	0 <8 digits>	M	Counts up when the registration sensor is ON. When the counter value of the fuser roller is cleared, this counter value is also cleared in sync at the PM support mode.	1
1386	Image processing	Number of output pages (Thick paper 2)	ALL	0 <8 digits>	M	Counts up when the registration sensor is ON. When the counter value of the fuser roller is cleared, this counter value is also cleared in sync at PM support mode.	1
1387	Image processing	Number of output pages (Thick paper 3)	ALL	0 <8 digits>	M	Counts up when the registration sensor is ON. When the counter value of the fuser roller is cleared, this counter value is also cleared in sync at PM support mode.	1
1388	Image processing	Number of output pages (OHP film)	ALL	0 <8 digits>	M	Counts up when the registration sensor is ON. When the counter value of the fuser roller is cleared, this counter value is also cleared in sync at PM support mode.	1
1390	Paper feeding	Feeding retry counter (upper drawer)	ALL	0 <8 digits>	M	Counts the number of times of the feeding retry from the upper drawer.	1
1391	Paper feeding	Feeding retry counter (lower drawer)	ALL	0 <8 digits>	M	Counts the number of times of the feeding retry from the lower drawer.	1

Setting mode (08) <e-STUDIO350/450>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
1392	Paper feeding	Feeding retry counter (PFP upper drawer)	ALL	0 <8 digits>	M	Counts the number of times of the feeding retry from the PFP upper drawer.	1
1393	Paper feeding	Feeding retry counter (PFP lower drawer)	ALL	0 <8 digits>	M	Counts the number of times of the feeding retry from the PFP lower drawer.	1
1394	Paper feeding	Feeding retry counter (bypass feed)	ALL	0 <8 digits>	M	Counts the number of times of the feeding retry from the bypass tray.	1
1395	Paper feeding	Feeding retry counter (LCF)	ALL	0 <8 digits>	M	Counts the number of times of the feeding retry from the LCF.	1
1396	Paper feeding	Feeding retry counter upper limit value (upper drawer)	ALL	0 <8 digits>	M	When the number of feeding retry (08-1390 to 08-1395) exceeds the setting value, the feeding retry will not be performed subsequently. In case "0" is set as a setting value, however, the feeding retry continues regardless of the counter setting value.	1
1397	Paper feeding	Feeding retry counter upper limit value (lower drawer)	ALL	0 <8 digits>	M		1
1398	Paper feeding	Feeding retry counter upper limit value (PFP upper drawer)	ALL	0 <8 digits>	M		1
1399	Paper feeding	Feeding retry counter upper limit value (PFP lower drawer)	ALL	0 <8 digits>	M		1
1400	Paper feeding	Feeding retry counter upper limit value (bypass feed)	ALL	0 <8 digits>	M		1
1401	Paper feeding	Feeding retry counter upper limit value (LCF)	ALL	0 <8 digits>	M		1
1410	Counter	Counter for period of toner cartridge rotation time	ALL	0 <8 digits>	M	Counts up the period of rotation time of the toner cartridge.	1
1412	Counter	Counter for tab paper	ALL	0 <8 digits>	M	Counts up when the registration sensor is ON. When the counter value of the fuser roller is reset, this counter is reset in sync at the PM support mode.	1

Setting mode (08) <e-STUDIO350/450>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
1422	Data over-write kit	HDD data overwriting type setting	ALL	3 <0-4>	SYS	HDD data is cleared by overwriting the type of value set in this code. (This setting is enabled only when the GP-1050 is installed.) 0: "00" overwriting only 1: "FF" overwriting only 2: Random number overwriting only 3: "00" + "FF" + random number overwriting (validation ON) 4: "00" + "FF" + random number overwriting (validation OFF)	1
1424	Data over-write kit	HDD data clearing type setting (forcible clearing)	ALL	3 <0-4>	SYS	HDD data is cleared by overwriting the type of value set in this code. (This setting is enabled only when the GP-1050 is installed.) 0: "00" overwriting only 1: "FF" overwriting only 2: Random number overwriting only 3: "00" + "FF" + random number overwriting (validation ON) 4: "00" + "FF" + random number overwriting (validation OFF)	1
1426	Data over-write kit	Forcible HDD data clearing	ALL	-	-	HDD data is cleared in the procedure set in 08-1424. * This setting is enabled only when the GP-1050 is installed.	3
1427	Data over-write kit	Forcible NVRAM data all clearing	ALL	-	-	When this code is performed, the equipment cannot be started up. * This setting is enabled only when the GP-1050 is installed.	3
1428	Data over-write kit	Forcible SRAM backup data all clearing	ALL	-	-	When this code is performed, the equipment cannot be started up. * This setting is enabled only when the GP-1050 is installed.	3

Setting mode (08) <e-STUDIO350/450>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedur e
1432	Network	Mode only for Private Print	ALL	0 <0-1>	SYS	0: Normal mode 1: Mode for Private Print	1
1433	Network	"Disable e-Filing" function	ALL	0 <0-1>	SYS	0: Function OFF (no restriction on data saving or other operations) 1: Function ON (Data saving or other operations are restricted)	1
1434	Network	"Disabling local file save" function	ALL	0 <0-1>	SYS	0: Function OFF (no restriction on data saving or other operations) 1: Function ON (Data saving or other operations are restricted)	1
1484	Network	Authentication method of "Scan to Email"	ALL	0 <0-2>	SYS	0: Disabled 1: SMTP authentication 2: LDAP authentication	1
1485	Network	Setting whether use of Internet FAX is permitted or not when it is given an authentication	ALL	0 <0-1>	SYS	0: Not permitted 1: Permitted	1
1486	Network	Server setting for LDAP user authentication	ALL	0 <0-4294967295>	SYS		2
1487	Network	"From" address assignment method when it is given an authentication	ALL	0 <0-2>	SYS	0: "User name" + @ + "Domain name" 1: LDAP searching 2: Use the address registered at "From" field of E-mail setting	1
1488	Network	ID setting of LDAP server for "From" address assignment	ALL	0 <0-4294967295>	SYS		2
1489	Network	Setting for "From" address edit at "Scan to Email"	ALL	0 <0-1>	SYS	0: Not permitted 1: Permitted	1
1491	Network	E-mail domain name	ALL	-	SYS	96 + 2 (delimiter) character ASCII sequence only	11

## &lt;&lt;Pixel counter related code&gt;&gt;(Chap. 2.2.9)

Setting mode (08) <e-STUDIO350/450>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
1500	Pixel counter	Standard paper size setting	ALL	EUR: 0 UC: 1 JPN: 0 <0-1>	SYS	Selects the standard paper size to convert it into the pixel count (%). 0: A4 1: LT	1
1501	Pixel counter	Pixel counter all clearing	ALL	-	SYS	Clears all information related to the pixel counter.	3
1502	Pixel counter	Service technician reference counter clearing	ALL	-	SYS	Clears all information related to the service technician reference pixel counter.	3
1503	Pixel counter	Toner cartridge reference counter clearing	ALL	-	SYS	Clears all information related to the toner cartridge reference pixel counter.	3
1504	Pixel counter	Pixel counter display setting	ALL	1 <0-1>	SYS	Selects whether or not to display the pixel counter on the LCD screen. 0: Displayed 1: Not displayed	1
1505	Pixel counter	Displayed reference setting	ALL	0 <0-1>	SYS	Selects the reference when displaying the pixel counter on the LCD screen. 0: Service technician reference 1: Toner cartridge reference	1
1506	Pixel counter	Toner empty determination counter setting	ALL	0 <0-1>	SYS	Selects the counter to determine toner empty. 0: Output pages 1: Pixel counter	1
1507	Pixel counter	Threshold setting for toner empty determination (Output pages)	ALL	400 <0-999>	SYS	Sets the number of output pages to determine toner empty. This setting is valid when "0" is set at 08-1506.	1
1508	Pixel counter	Threshold setting for toner empty determination (Pixel counter)	ALL	17550 <0-60000>	SYS	Sets the number of output pages to determine toner empty. This setting is valid when "1" is set at 08-1506.	1
1509	Pixel counter	Pixel counter clear flag/Service technician reference	ALL	0 <0-1>	SYS	Becomes "1" when 08-1502 is performed.	2
1510	Pixel counter	Service technician reference cleared date	ALL	-	SYS	Displays the date on which 08-1502 was performed.	2
1514	Pixel counter	Toner cartridge reference cleared date	ALL	-	SYS	Displays the date on which 08-1503 was performed.	2
1518	Pixel counter	Toner cartridge reference count started date	ALL	-	SYS	Displays the date on which 08-1503 was performed.	2

Setting mode (08) <e-STUDIO350/450>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
1548	Pixel counter	Number of output pages (Service technician reference)	PPC	<8 digits>	SYS	Counts the number of output pages converted to the standard paper size in the copy function, black mode and service technician reference. [Unit. page]	2
1550	Pixel counter	Number of output pages (Service technician reference)	PRT	<8 digits>	SYS	Counts the number of output pages converted to the standard paper size in the printer function and service technician reference. [Unit. page]	2
1551	Pixel counter	Number of output pages (Service technician reference)	FAX	<8 digits>	SYS	Counts the number of output pages converted to the standard paper size in the FAX function and service technician reference. [Unit. page]	2
1553	Pixel counter	Number of output pages (Toner cartridge reference)	PPC	<8 digits>	SYS	Counts the number of output pages converted to the standard paper size in the copy function and toner cartridge reference. [Unit. page]	2
1555	Pixel counter	Number of output pages/black (Toner cartridge reference)	PRT	<8 digits>	SYS	Counts the number of output pages converted to the standard paper size in the printer function and toner cartridge reference. [Unit. page]	2
1556	Pixel counter	Number of output pages (Toner cartridge reference)	FAX	<8 digits>	SYS	Counts the number of output pages converted to the standard paper size in the FAX function and toner cartridge reference. [Unit. page]	2
1566	Pixel counter	Toner cartridge replacement counter	ALL	<3 digits>	SYS	Counts the number of time of the toner cartridge replacement.	2
1592	Pixel counter	Average pixel count (Service technician reference)	PPC	0 <0-10000>	SYS	Displays the average pixel count in the copy function and service technician reference. [Unit: 0.01%]	2
1593	Pixel counter	Average pixel count (Service technician reference)	PRT	0 <0-10000>	SYS	Displays the average pixel count in the printer function and service technician reference. [Unit: 0.01%]	2

Setting mode (08) <e-STUDIO350/450>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
1594	Pixel counter	Average pixel count (Service technician reference)	FAX	0 <0-10000>	SYS	Displays the average pixel count in the FAX function and service technician reference. [Unit: 0.01%]	2
1595	Pixel counter	Average pixel count (Service technician reference)	PPC/ PRT/ FAX	0 <0-10000>	SYS	Displays the average pixel count in the copy/printer/FAX function and service technician reference. [Unit: 0.01%]	2
1606	Pixel counter	Latest pixel count (Service technician reference)	PPC	0 <0-10000>	SYS	Displays the latest pixel count in the copy function, black mode and service technician reference. [Unit: 0.01%]	2
1607	Pixel counter	Latest pixel count (Service technician reference)	PRT	0 <0-10000>	SYS	Displays the latest pixel count in the printer function and service technician reference. [Unit: 0.01%]	2
1608	Pixel counter	Latest pixel count (Service technician reference)	FAX	0 <0-10000>	SYS	Displays the latest pixel count in the FAX function and service technician reference. [Unit: 0.01%]	2
1613	Pixel counter	Average pixel count (Toner cartridge reference)	PPC	0 <0-10000>	SYS	Displays the average pixel count in the printer function and toner cartridge reference. [Unit: 0.01%]	2
1619	Pixel counter	Average pixel count (Toner cartridge reference)	PRT	0 <0-10000>	SYS	Displays the average pixel count in the printer function, and toner cartridge reference. [Unit: 0.01%]	2
1624	Pixel counter	Average pixel count (Toner cartridge reference)	PPC/ PRT/ FAX	0 <0-10000>	SYS	Displays the average pixel count in the copy/printer/FAX function and toner cartridge reference. [Unit: 0.01%]	2
1625	Pixel counter	Average pixel count (Toner cartridge reference)	FAX	0 <0-10000>	SYS	Displays the average pixel count in the FAX function and toner cartridge reference. [Unit: 0.01%]	2
1634	Pixel counter	Latest pixel count (Toner cartridge reference)	FAX	0 <0-10000>	SYS	Displays the latest pixel count in the FAX function and toner cartridge reference. [Unit: 0.01%]	2
1639	Pixel counter	Latest pixel count (Toner cartridge reference)	PPC	0 <0-10000>	SYS	Displays the latest pixel count in the copy function and toner cartridge reference. [Unit: 0.01%]	2



Setting mode (08) <e-STUDIO350/450>								
Code	Classifi- cation	Items		Func- tion	Default <Accept- able value>	RAM	Contents	Pro- cedur e
1640	Pixel counter	Latest pixel count (Toner cartridge reference)		PRT	0 <0- 10000>	SYS	Displays the latest pixel count in the printer function and toner car- tridge reference. [Unit: 0.01%]	2
1649-0	Pixel counter	Pixel count distribution	0-5%	PPC	<8 digits>	SYS	The pixel count data are divided into 10 ranges. The number of output pages in each range is displayed. In this code, the distribu- tions in the copy func- tion are displayed. [Unit: page]	14
1649-1			5.1-10%	PPC	<8 digits>	SYS		14
1649-2			10.1-15%	PPC	<8 digits>	SYS		14
1649-3			15.1-20%	PPC	<8 digits>	SYS		14
1649-4			20.1-25%	PPC	<8 digits>	SYS		14
1649-5			25.1-30%	PPC	<8 digits>	SYS		14
1649-6			30.1-40%	PPC	<8 digits>	SYS		14
1649-7			40.1-60%	PPC	<8 digits>	SYS		14
1649-8			60.1-80%	PPC	<8 digits>	SYS		14
1649-9			80.1- 100%	PPC	<8 digits>	SYS		14
1650-0	Pixel counter	Pixel count distribution	0-5%	PRT	<8 digits>	SYS	The pixel count data are divided into 10 ranges. The number of output pages in each range is displayed. In this code, the distribu- tions in the printer func- tion are displayed. [Unit: page]	14
1650-1			5.1-10%	PRT	<8 digits>	SYS		14
1650-2			10.1-15%	PRT	<8 digits>	SYS		14
1650-3			15.1-20%	PRT	<8 digits>	SYS		14
1650-4			20.1-25%	PRT	<8 digits>	SYS		14
1650-5			25.1-30%	PRT	<8 digits>	SYS		14
1650-6			30.1-40%	PRT	<8 digits>	SYS		14
1650-7			40.1-60%	PRT	<8 digits>	SYS		14
1650-8			60.1-80%	PRT	<8 digits>	SYS		14
1650-9			80.1- 100%	PRT	<8 digits>	SYS		14
1651-0	Pixel counter	Pixel count distribution	0-5%	FAX	<8 digits>	SYS	The pixel count data are divided into 10 ranges. The number of output pages in each range is displayed. In this code, the distribu- tions in the FAX func- tion are displayed. [Unit: page]	14
1651-1			5.1-10%	FAX	<8 digits>	SYS		14
1651-2			10.1-15%	FAX	<8 digits>	SYS		14
1651-3			15.1-20%	FAX	<8 digits>	SYS		14
1651-4			20.1-25%	FAX	<8 digits>	SYS		14
1651-5			25.1-30%	FAX	<8 digits>	SYS		14
1651-6			30.1-40%	FAX	<8 digits>	SYS		14
1651-7			40.1-60%	FAX	<8 digits>	SYS		14
1651-8			60.1-80%	FAX	<8 digits>	SYS		14
1651-9			80.1- 100%	FAX	<8 digits>	SYS		14

# <<PM support mode related code>>

- The management items at PM support mode can also be operated at setting mode (08).  
The following items are displayed or set by using sub-codes at PM management setting in the table below.

## <Sub-codes>

- 0: Present number of output pages  
- Means the present number of output pages.
- 1: Recommended number of output pages for replacement  
- Means the recommended number of output pages for replacement.
- 2: Number of output pages at the last replacement  
- Means the number of output pages at the last replacement.
- 3: Present driving counts  
- Means the present drive counts (1 count = 2 seconds).
- 4: Recommended driving counts to be replaced  
- Means the recommended drive counts for replacement (1 count = 2 seconds).
- 5: Driving counts at the last replacement  
- Means the drive counts at the last replacement.
- 6: Present output pages for control  
- Means the present number of output pages for controlling.
- 7: Present driving counts for control  
- Means the present drive counts for controlling (1 count = 2 seconds).
- 8: Number of times replaced  
- Counts up when clearing the counter of each unit in the PM Support Mode Screen.

## Notes:

- Sub-code 3 is equivalent to sub-code 7.
- When the value of sub-code 3 is changed, the value of sub-code 7 is also updated and vice versa.
- When "0" is set at one of sub-codes 0, 3, 6 and 7, the rest of them are automatically updated to "0".

## <e-STUDIO350/450>

Items	PM management setting <Procedure 4> *Indicated in 8 digits	Date of previous replacement <Procedure 2>	Remarks
Photoconductive drum	1150-0 to 8	1151	<Default values of code 1150 (e-STUDIO350/450)> Sub-codes 0, 2, 3, 5, 6, 7, 8: 0/0 Sub-code 1: 120000/150000 Sub-code 4: 220000/220000
Drum cleaning blade	1158-0 to 8	1159	<Default values of code 1158 (e-STUDIO350/450)> Sub-codes 0, 2, 3, 5, 6, 7, 8: 0/0 Sub-code 1: 120000/150000 Sub-code 4: 220000/220000
Drum separation finger	1172-0 to 8	1173	<Default values of code 1172 (e-STUDIO350/450)> Sub-codes 0, 2, 3, 5, 6, 7, 8: 0/0 Sub-code 1: 120000/150000 Sub-code 4: 220000/220000
Main charger grid	1174-0 to 8	1175	<Default values of code 1174 (e-STUDIO350/450)> Sub-codes 0, 2, 3, 5, 6, 7, 8: 0/0 Sub-code 1: 120000/150000 Sub-code 4: 220000/220000

Items	PM management setting <Procedure 4> *Indicated in 8 digits	Date of previous replacement <Procedure 2>	Remarks
Main charger wire	1182-0 to 8	1183	<Default values of code 1182 (e-STUDIO350/450)> Sub-codes 0, 2, 3, 5, 6, 7, 8: 0/0 Sub-code 1: 120000/150000 Sub-code 4: 220000/220000
Ozone filter	1198-0 to 8	1199	<Default values of code 1198 (e-STUDIO350/450)> Sub-codes 0, 2, 3, 5, 6, 7, 8: 0/0 Sub-code 1: 120000/150000 Sub-code 4: 220000/220000
Developer material	1200-0 to 8	1201	<Default values of code 1200 (e-STUDIO350/450)> Sub-codes 0, 2, 3, 5, 6, 7, 8: 0/0 Sub-code 1: 120000/150000 Sub-code 4: 220000/220000
Transfer charger wire	1214-0 to 8	1215	<Default values of code 1214 (e-STUDIO350/450)> Sub-codes 0, 2, 3, 5, 6, 7, 8: 0/0 Sub-code 1: 120000/150000 Sub-code 4: 220000/220000
Separation charger wire	1224-0 to 8	1225	<Default values of code 1224 (e-STUDIO350/450)> Sub-codes 0, 2, 3, 5, 6, 7, 8: 0/0 Sub-code 1: 120000/150000 Sub-code 4: 220000/220000
Fuser roller	1246-0 to 8	1247	<Default values of code 1246 (e-STUDIO350/450)> Sub-codes 0, 2, 3, 5, 6, 7, 8: 0/0 Sub-code 1: 120000/150000 Sub-code 4: 220000/220000
Pressure roller	1250-0 to 8	1251	<Default values of code 1250 (e-STUDIO350/450)> Sub-codes 0, 2, 3, 5, 6, 7, 8: 0/0 Sub-code 1: 120000/150000 Sub-code 4: 220000/220000
Cleaning roller	1266-0 to 8	1267	<Default values of code 1266 (e-STUDIO350/450)> Sub-codes 0, 2, 3, 5, 6, 7, 8: 0/0 Sub-code 1: 120000/150000 Sub-code 4: 220000/220000
Fuser roller separation finger	1268-0 to 8	1269	<Default values of code 1268 (e-STUDIO350/450)> Sub-codes 0, 2, 3, 5, 6, 7, 8: 0/0 Sub-code 1: 120000/150000 Sub-code 4: 220000/220000
Pickup roller (RADF)	1282-0, 1, 2, 8	1283	<Default values of code 1282 (e-STUDIO350/450)> Sub-codes 0, 2, 8: 0/0 Sub-code 1: 120000/120000
Feed roller (RADF)	1284-0,1,2,8	1285	<Default values of code 1284 (e-STUDIO350/450)> Sub-codes 0, 2, 8: 0/0 Sub-code 1: 120000/120000
Separation roller (RADF)	1286-0, 1, 2, 8	1287	<Default values of code 1286 (e-STUDIO350/450)> Sub-codes 0, 2, 8: 0/0 Sub-code 1: 120000/120000

Items	PM management setting <Procedure 4> *Indicated in 8 digits	Date of previous replacement <Procedure 2>	Remarks
Pickup roller (Upper drawer)	1290-0, 1, 2, 8	1291	<Default values of code 1290 (e-STUDIO350/450)> Sub-codes 0, 2, 8: 0/0 Sub-code 1: 80000/80000
Pickup roller (Lower drawer)	1292-0,1,2,8	1293	<Default values of code 1292 (e-STUDIO350/450)> Sub-codes 0, 2, 8: 0/0 Sub-code 1: 80000/80000
Pickup roller (LCF)	1294-0,1,2,8	1295	<Default values of code 1294 (e-STUDIO350/450)> Sub-codes 0, 2, 8: 0/0 Sub-code 1: 160000/160000
Feed roller (Upper drawer)	1298-0,1,2,8	1299	<Default values of code 1298 (e-STUDIO350/450)> Sub-codes 0, 2, 8: 0/0 Sub-code 1: 80000/80000
Feed roller (Lower drawer)	1300-0,1,2,8	1301	<Default values of code 1300 (e-STUDIO350/450)> Sub-codes 0, 2, 8: 0/0 Sub-code 1: 80000/80000
Feed roller (LCF)	1302-0, 1, 2, 8	1303	<Default values of code 1302 (e-STUDIO350/450)> Sub-codes 0, 2, 8: 0/0 Sub-code 1: 160000/160000
Separation roller (Upper drawer)	1306-0,1,2,8	1307	<Default values of code 1306 (e-STUDIO350/450)> Sub-codes 0, 2, 8: 0/0 Sub-code 1: 80000/80000
Separation roller (Lower drawer)	1308-0,1,2,8	1309	<Default values of code 1308 (e-STUDIO350/450)> Sub-codes 0, 2, 8: 0/0 Sub-code 1: 80000/80000
Separation roller (LCF)	1310-0,1,2,8	1311	<Default values of code 1310 (e-STUDIO350/450)> Sub-codes 0, 2, 8: 0/0 Sub-code 1: 160000/160000
Separation roller (PFP upper drawer)	1312-0,1,2,8	1313	<Default values of code 1312 (e-STUDIO350/450)> Sub-codes 0, 2, 8: 0/0 Sub-code 1: 80000/80000
Separation roller (PFP lower drawer)	1314-0,1,2,8	1315	<Default values of code 1314 (e-STUDIO350/450)> Sub-codes 0, 2, 8: 0/0 Sub-code 1: 80000/80000
Separation roller (Bypass unit)	1316-0,1,2,8	1317	<Default values of code 1316 (e-STUDIO350/450)> Sub-codes 0, 2, 8: 0/0 Sub-code 1: 80000/80000
Feed roller (PFP upper drawer)	1320-0,1,2,8	1321	<Default values of code 1320 (e-STUDIO350/450)> Sub-codes 0, 2, 8: 0/0 Sub-code 1: 80000/80000
Feed roller (PFP lower drawer)	1322-0,1,2,8	1323	<Default values of code 1322 (e-STUDIO350/450)> Sub-codes 0, 2, 8: 0/0 Sub-code 1: 80000/80000

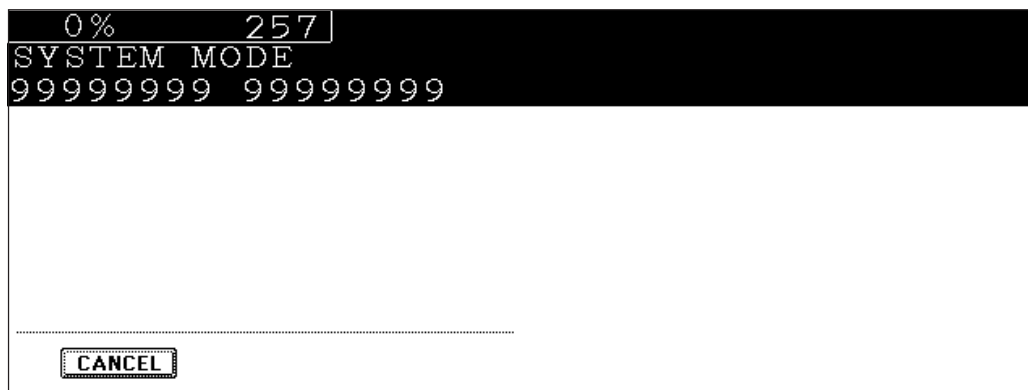
Items	PM management setting <Procedure 4> *Indicated in 8 digits	Date of previous replacement <Procedure 2>	Remarks
Feed roller (Bypass unit)	1324-0,1,2,8	1325	<Default values of code 1324 (e-STUDIO350/450)> Sub-codes 0, 2, 8: 0/0 Sub-code 1: 80000/80000
Pickup roller (PFP upper drawer)	1328-0,1,2,8	1329	<Default values of code 1328 (e-STUDIO350/450)> Sub-codes 0, 2, 8: 0/0 Sub-code 1: 80000/80000
Pickup roller (PFP lower drawer)	1330-0,1,2,8	1331	<Default values of code 1330 (e-STUDIO350/450)> Sub-codes 0, 2, 8: 0/0 Sub-code 1: 80000/80000
Pickup roller (Bypass unit)	1332-0, 1, 2, 8	1333	<Default values of code 1332 (e-STUDIO350/450)> Sub-codes 0, 2, 8: 0/0 Sub-code 1: 80000/80000

### <<Procedure to copy the total counter value (08-257)>>

- (1) Turn ON the power while [0] and [8] are pressed simultaneously.
- (2) Key in the code "257" and press the [START] button (the following is displayed).

**Note:**

Before performing the following operations, note the current counter values.

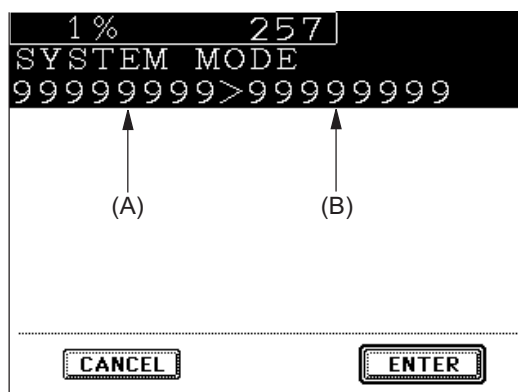


- (3) Key in the value "1" or "2" and press the [START] button.  
The value entered is displayed on the left of the "%", and the [ENTER] button is displayed.

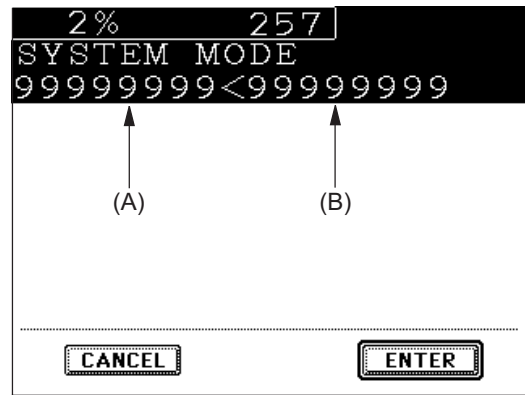
**Note:**

The value can be erased by pressing the [CLEAR] button to change as long as the [START] button is not pressed. (The value on the left of the "%" is reset to "0" by pressing the [CLEAR] button.)

- Key in "1" to copy the value of the total counter (LGC board) (A) onto the value of the backup counter (SYS board) (B).



- Key in “2” to copy the value of the backup counter (SYS board) (B) onto the value of the total counter (LGC board) (A).



- (4) Press the [ENTER] button to complete overwriting of the counter value.

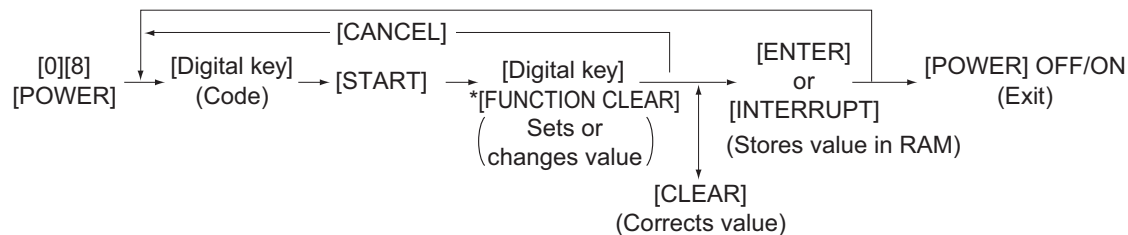
**Note:**

The screen returns to the code entry screen without copying (overwriting) the value when the [CANCEL] button is pressed.

## 2.2.8 Setting mode (08) (e-STUDIO352/353/452/453)

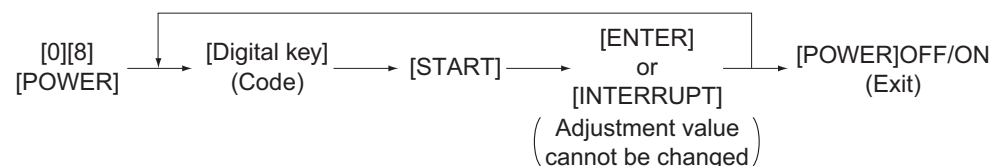
The items in the setting code list can be set or changed in this setting mode (08).

### Procedure 1

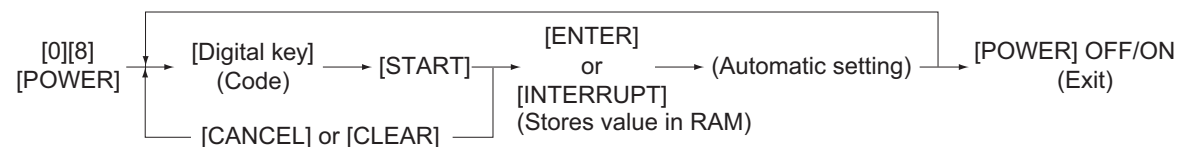


\* Press [FUNCTION CLEAR] to enter minus (-).

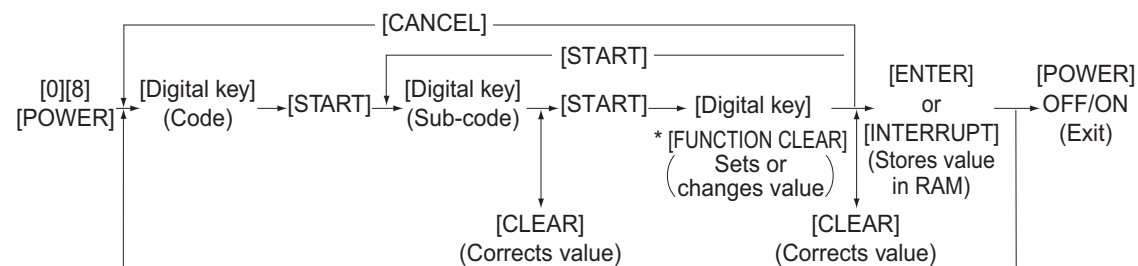
### Procedure 2



### Procedure 3



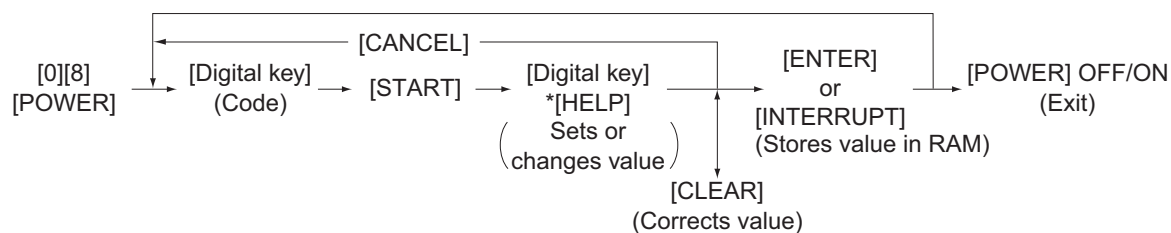
### Procedure 4



\* Press [FUNCTION CLEAR] to enter minus (-).

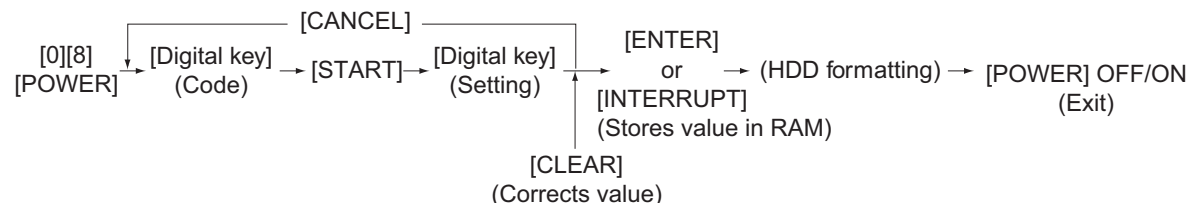


## Procedure 5

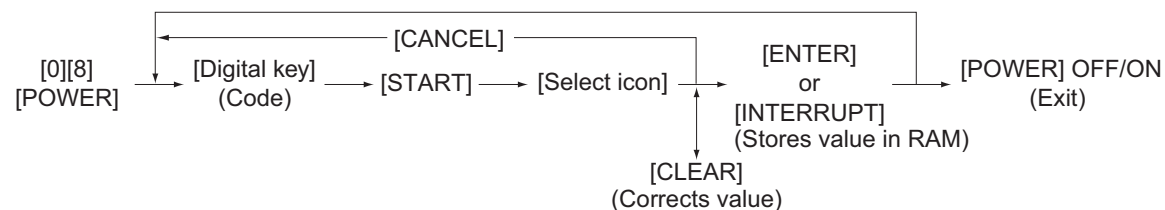


\* Press [HELP] to enter "-".

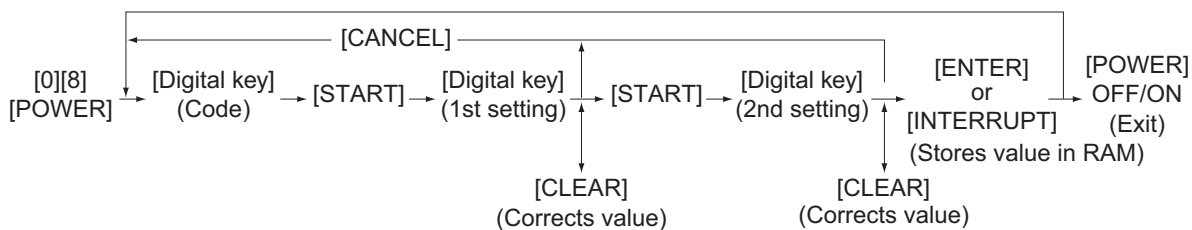
## Procedure 7



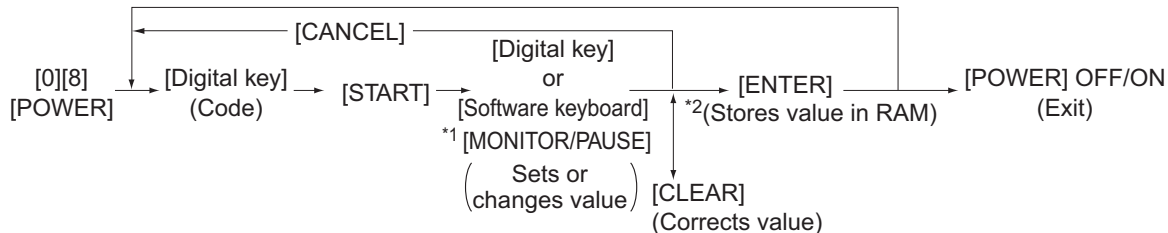
## Procedure 9



## Procedure 10



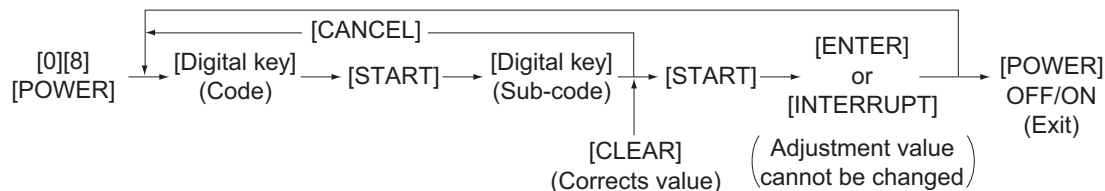
## Procedure 11 and 12



\*1 Press [MONITOR/PAUSE] to enter "-", when entering telephone number.

\*2 The data are stored in SYS-RAM in procedure 11 and stored in NIC-RAM in procedure 12.

## Procedure 14



### Notes:

1. The digit after the hyphen in "Code" of the following table is a sub code.
2. e-STUDIO352/353/452/453:  
In "RAM", the NVRAM of the board in which the data of each code is stored is indicated.  
"M" stands for the LGC board, "SYS", "NIC" and "UTY" stands for the SYS board.

Setting mode (08) <e-STUDIO352/353/452/453>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
200	General	Date and time setting	ALL	- <13 digits>	-	Year/month/date/day/ hour/minute/second Example: 03 07 0 13 13 27 48 "Day" - "0" is for "Sun- day". Proceeds Monday through Saturday from "1" to "6".	5
201	General	Destination selection	ALL	EUR: 0 UC: 1 JPN: 2 <0-2>	M	0: EUR 1: UC 2: JPN	1
202	User interface	Counter installed externally	ALL	0 <0-3>	M	0: No external counter 1: Coin controller 2: Copy key card (This value is valid only when "2" is set to 08-201.) 3: Key copy counter	1
203	General	Line adjustment mode	ALL	0 <0-1>	M	0: For factory ship- ment 1: For line * Field: "0" must be selected	1
204	User interface	Auto-clear timer setting	ALL	3 <0-10>	SYS	Timer to return the equipment to the default settings when the [START] button is not pressed after the function and the mode are set 0: Not cleared 1 to 10: Set number x 15 sec.	1

Setting mode (08) <e-STUDIO352/353/452/453>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
205	User interface	Auto power save mode timer setting	ALL	JPN: 6 Other: 11 <0, 6-15>	SYS	Timer to automatically switch to the Auto power save mode when the equipment has not been used 0: Invalid 6: 3min. 7: 4min. 8: 5min. 9: 7min. 10: 10min. 11: 15min. 12: 20min. 13: 30min. 14: 45min. 15: 60min.	1
206	User interface	Auto Shut Off Mode timer setting (Auto Shut Off Mode / Sleep Mode)	ALL	Refer to content <0-20>	SYS	Timer to turn OFF the power or to enter the Sleep Mode automatically when the equipment has not been used 0: 3min. 1: 5min. 2: 10min. 3: 15min. 4: 20min. 5: 25min. 6: 30min. 7: 40min. 8: 50min. 9: 60min. 10: 70min. 11: 80min. 12: 90min. 13: 100min. 14: 110min. 15: 120min. 16: 150min. 17: 180min. 18: 210min. 19: 240min. 20: Not used <Default value> e-STUDIO352/353 JPN: 0 UC, EUR: 9 Others: 9 e-STUDIO452/453 JPN: 0 UC, EUR: 12 Others: 12	1
207	User interface	Highlighting display on LCD	ALL	0 <0-1>	SYS	0: Black letter on white background 1: White letter on black background	1
209	User interface	Default setting of filing format when E-mailing	ALL	1 <0-6>	SYS	0: TIFF (Multi) 1: PDF (Multi) 2: Not used 3: TIFF (Single) 4: PDF (Single) 5: XPS (Multi) 6: XPS (Single)	1
210	Paper feeding	Paper size (A6-R) feeding/width wise direction	PRT	148/105 <148-432/105-297>	M		10
213	User interface	Display of [REVERSE ORDER] button	ALL	0 <0-1>	SYS	0: Not displayed 1: Displayed	1

Setting mode (08) <e-STUDIO352/353/452/453>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
219	User interface	Default setting of filing format when storing files	SCN	0 <0-6>	SYS	0: TIFF (Multi) 1: PDF (Multi) 2: Not used 3: TIFF (Single) 4: PDF (Single) 5: XPS (Multi) 6: XPS (Single)	1
220	User interface	Language displayed at power-ON	ALL	EUR: 0 UC: 0 JPN: 5 <0-6>	SYS	0: Language 1 1: Language 2 2: Language 3 3: Language 4 4: Language 5 5: Language 6 6: Language 7	1
221	User interface	Language selection in UI data at Web power ON	ALL	EUR: 0 UC: 0 JPN: 5 <0-6>	SYS	0: Language 1 1: Language 2 2: Language 3 3: Language 4 4: Language 5 5: Language 6 6: Language 7	1
224	Paper feeding	Paper size for bypass feed	PPC	UNDEF	SYS	Press the button on the LCD to select the size.	9
225	Paper feeding	Paper size for upper drawer	ALL	EUR: A4 UC: LT JPN: A4	M	Press the button on the LCD to select the size.	9
226	Paper feeding	Paper size for lower drawer	ALL	EUR: A3 UC: LD JPN: A3	M	Press the button on the LCD to select the size.	9
227	Paper feeding	Paper size for PFP upper drawer	ALL	EUR: A4-R UC: LT-R JPN: A4-R	M	Press the button on the LCD to select the size.	9
228	Paper feeding	Paper size for PFP lower drawer	ALL	EUR: A4 UC: LG JPN: B4	M	Press the button on the LCD to select the size.	9
229	Paper feeding	Paper size (A3) feeding/width wise direction	ALL	420/297 <182-432/140-297>	M		10
230	Paper feeding	Paper size (A4-R) feeding/width wise direction	ALL	297/210 <182-432/140-297>	M		10
231	Paper feeding	Paper size (A5-R) feeding/width wise direction	ALL	210/148 <182-432/140-297>	M		10
232	Paper feeding	Paper size (B4) feeding/width wise direction	ALL	364/257 <182-432/140-297>	M		10
233	Paper feeding	Paper size (B5-R) feeding/width wise direction	ALL	257/182 <182-432/140-297>	M		10

Setting mode (08) <e-STUDIO352/353/452/453>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
234	Paper feeding	Paper size (LT-R) feeding/width wise direction	ALL	279/216 <182-432/140-297>	M		10
235	Paper feeding	Paper size (LD) feeding/width wise direction	ALL	432/279 <182-432/140-297>	M		10
236	Paper feeding	Paper size (LG) feeding/width wise direction	ALL	356/216 <182-432/140-297>	M		10
237	Paper feeding	Paper size (ST-R) feeding/width wise direction	ALL	216/140 <182-432/140-297>	M		10
238	Paper feeding	Paper size (COMPUTER) feeding/width wise direction	ALL	356/257 <182-432/140-297>	M		10
239	Paper feeding	Paper size (FOLIO) feeding/width wise direction	ALL	330/210 <182-432/140-297>	M		10
240	Paper feeding	Paper size (13"LG) feeding/width wise direction	ALL	330/216 <182-432/140-297>	M		10
241	Paper feeding	Paper size (8.5"X8.5") feeding/width wise direction	ALL	216/216 <182-432/140-297>	M		10
242	Paper feeding	Paper size (Non-standard) feeding/width wise direction	ALL	432/279 <148-432/105-297>	SYS		10
243	Paper feeding	Memory 1 Paper size (bypass feeding/non-standard type) feeding/width wise direction	ALL	148/100 <148-432/100-297>	SYS	Registers the paper size of bypass feed (non-standard type) into [MEMORY 1].	10
244	Paper feeding	Paper size (8K) feeding/width wise direction	ALL	390/270 <182-432/140-297>	M		10
245	Paper feeding	Paper size (16K-R) feeding/width wise direction	ALL	270/195 <182-432/140-297>	M		10
247	Paper feeding	Memory 2 Paper size (bypass feeding/non-standard type) feeding/width wise direction	ALL	148/100 <148-432/100-297>	SYS	Registers the paper size of bypass feed (non-standard type) into [MEMORY 2].	10

Setting mode (08) <e-STUDIO352/353/452/453>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
248	Paper feeding	Memory 3 Paper size (bypass feeding/non-standard type) feeding/width wise direction	ALL	148/100 <148-432/100-297>	SYS	Registers the paper size of bypass feed (non-standard type) into [MEMORY 3].	10
249	Paper feeding	Memory 4 Paper size (bypass feeding/non-standard type) feeding/width wise direction	ALL	148/100 <148-432/100-297>	SYS	Registers the paper size of bypass feed (non-standard type) into [MEMORY 4].	10
250	Maintenance	Service technician telephone number	ALL	0 <32 digits>	SYS	A telephone number can be entered up to 32 digits. Use the [MONITOR/PAUSE] button to enter a hyphen(-).	11
251	Maintenance	Setting value of PM counter	ALL	Refer to content <8 digits>	M	<Default> e-STUDIO352/353 UC, EUR: 120000 JPN: 0 e-STUDIO452/453 UC, EUR: 150000 JPN: 0	1
252	Maintenance	Current value of PM counter Display/0 clearing	ALL	0 <8 digits>	M	Counts up when the registration sensor is ON.	1
253	Maintenance	Error history display	ALL	-	SYS	Displays the latest 20 errors data	2
254	Paper feeding	LT↔A4/LD↔A3	PRT	0 <0-1>	SYS	Sets whether the data is printed on the different but similar size paper or not when the paper of corresponding size is not available. 0: Valid (The data is printed on A4/A3 when LT/LD is selected or vice versa.) 1: Invalid (The message to use the selected paper size is displayed.)	1
255	Paper feeding	PFP/LCF installation	ALL	0 <0-4>	M	0: Automatic 1: PFP single-drawer type installed 2: PFP dual-drawer type installed 3: LCF installed 4: Not installed	1
256	Paper feeding	Paper size setting /LCF	ALL	EUR: A4 UC: LT JPN: A4	M	Press the icon on the LCD to select the size.	9

Setting mode (08) <e-STUDIO352/353/452/453>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
257	Counter	Counter copy	ALL	- <1-2>	-	1: Electrical counter -> Backup counter (NVRAM-> SRAM) 2: Backup counter -> Electrical counter (SRAM-> NVRAM) (P. 2-142)	-
258	Maintenance	FSMS acceptance	ALL	1 <0-2>	SYS	Sets whether the FSMS connection is accepted or not. 0: Prohibited 1: Accepted (serial connection only) 2: Accepted (both serial and USB con- nections)	1
259	Network	Storage period at trail and private	PRT	14 <0-30>	SYS	0: No limits 1 to 30: 1 to 30 days 31: 1hour 32: 2hours 33: 4hours 34: 8hours 35: 12hours	1
260	Network	Web data retention period	SCN	10 <3 digits>	SYS	When a certain period of time has passed without operation after accessing TopAccess, the data being regis- tered is automatically reset. This period is set at this code. (Unit: Minute)	1
263	User interface	Administrator's password (Maximum 10 digits)	ALL	123456 <10 dig- its>	-	The password can be entered in alphabets and figures (A-Z, a-z and 0-9) within 10 dig- its.	11
264	Network	File retention period	SCN	30 <0-999>	SYS	0: No limits 1 to 999: 1 to 999 days	1
265	Network	Maximum data capacity at E-mailing	SCN	30 <2-30>	SYS	2 to 30 M bytes	1
266	Network	Maximum data capacity at Internet FAX	ALL	30 <2-30>	SYS	2 to 30 M bytes	1

Setting mode (08) <e-STUDIO352/353/452/453>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
267	Electronic filing	Full guarantee of documents in Electronic Filing when HDD is full	ALL	1 <0-1>	SYS	Sets the file retention level when editing the files in the Electronic Filing (at CutDoc/SaveDoc command execution). 0: Not full retained 1: Fully retained - Retains the source file until CutDoc/SaveDoc command is completed. * The file is not deleted even if the HDD has become full during the execution of command when "1" is set.	1
270	Electronic filing	Default setting of user box retention period	ALL	0 <0-999>	SYS	Sets the data retention period when creating a user box. 0: Not deleted 1 to 999: Retention period (Unit: Day)	1
271	General	Warning notification of the File Share and e-Filing partitions are filled	ALL	90 <0-100>	SYS	Sets the percentage of HDD partition filled when warning notification is sent. 0 to 100: 0 to 100% * Related code 08-288	1
272	Scanning	Notification setting of E-mail saving time limit	ALL	3 <0-99>	SYS	Sets the days left the notification of E-mail saving time limit appears 0 to 99: 0 to 99 days	1
273	Scanning	Default setting of partial size when transmitting E-mail	ALL	0 <0-6>	SYS	Sets the default value for the partial size of E-mail to be transmitted when creating a template. 0: Not divided 1: 64            2: 128 3: 256        4: 512 5: 1024 6: 2048 (Unit: KB)	1
274	FAX	Default setting of page by page when transmitting Internet FAX	ALL	0 <0-4>	SYS	Sets the default value for the page by page of Internet FAX to be transmitted when creating a template. 0: Not divided 1: 256 2: 512 3: 1024 4: 2048 (Unit: KB)	1



Setting mode (08) <e-STUDIO352/353/452/453>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
276	User interface	Default setting of density adjustment	SCN	0 <0-11>	SYS	0: Automatic density 1: Step -5 2: Step -4 3: Step -3 4: Step -2 5: Step -1 6: Step 0 (center) 7: Step +1 8: Step +2 9: Step +3 10: Step +4 11: Step +5 (1 to 11: Manual density)	1
281	User interface	Default setting of resolution	SCN	1 <0-4>	SYS	0: 150 dpi 1: 200 dpi 2: 300 dpi3: 400dpi 4: 600 dpi	1
283	User interface	Default setting of original mode	SCN	0 <0-3>	SYS	0: Text 1: Text/Photo 2: Photo 3: Gray scale	1
284	User interface	Default setting of scanning mode	SCN	0 <0-2>	SYS	0: Single 1: Book 2: Tablet	1
285	User interface	Default setting of rotation mode	SCN	0 <0-3>	SYS	0: 0 degree 1: 90 degrees 2: 180 degrees 3: 270 degrees	1
286	User interface	Default setting of original paper size	SCN	0 <0-22>	SYS	0: Automatic 1: A3 2: A4 3: LD 4: LT 5: A4-R 6: A5-R 7: LT-R 8: LG 9: B4 10: B5 11: ST-R 12: COMP 13: B5-R 14: FOLIO 15: 13"LG 16: 8.5"x 8.5" 18: A6-R 19: Size mixed20: 8K 21: 16K 22: 16K-R	1
288	General	Searching interval of deleting expired files and checking capacity of HDD partitions	ALL	12 <1-24>	SYS	Sets the search interval of deleting expired files and checking capacity of HDD partitions. (Unit: Hour) * Related code 08-271	1
290	Network	Raw printing job (Duplex)	PRT	1 <0-1>	SYS	0: Valid 1: Invalid	1

Setting mode (08) <e-STUDIO352/353/452/453>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
291	Network	Raw printing job (Paper size)	PRT	EUR: 6 UC: 2 JPN: 6 <0 -13>	SYS	0: LD 1: LG 2: LT 3: COMP 4: ST 5: A3 6: A4 7: A5 8: A6 9: B4 10: B5 11: FOLIO 12: 13 "LG 13: 8.5" x 8.5"	1
292	Network	Raw printing job (Paper type)	PRT	0 <0-5>	SYS	0: Plain paper 1: Thick paper 1 2: Thick paper 2 3: Thick paper 3 4: OHP film 5: Tab paper	1
293	Network	Raw printing job (Paper direction)	PRT	0 <0-1>	SYS	0: Portrait 1: Landscape	1
294	Network	Raw printing job (Staple)	PRT	1 <0-1>	SYS	0: Valid 1: Invalid	1
295	Network	Raw printing job (receiving tray)	PRT	0 <0-5>	SYS	0: Inner tray 1: Finisher tray 1 2: Finisher tray 2 3: Not used 4: Job Separator upper tray 5: Job Separator lower tray* The settings 4 and 5 are effective only when the Job Separator (MJ-5004) is installed.	1
296	Network	Raw printing job (Number of form lines)	PRT	1200 <500- 12800>	SYS	Sets the number of form lines from 5 to 128. (A hundredfold of the number of form lines is defined as the setting value.)	1
297	Network	Raw printing job (PCL font pitch)	PRT	1000 <44- 9999>	SYS	Sets the font pitch from 0.44 to 99.99. (A hundredfold of the font pitch is defined as the setting value.)	1
298	Network	Raw printing job (PCL font size)	PRT	1200 <400- 99975>	SYS	Sets the font size from 4 to 999.75. (A hundredfold of the font size is defined as the setting value.)	1
299	Network	Raw printing job (PCL font number)	PRT	0 <0-79>	SYS	Sets the PCL font number.	1
300	User interface	Maximum number of copy volume (MAX9)	PPC	0 <0-2>	SYS	0: 999 1: 99 2: 9	1
302	User interface	Original counter display	PPC	EUR: 2 UC: 0 JPN: 0 <0, 2, 4>	SYS	Sets whether the original counter is displayed or not. 0: Not displayed 2: Displayed 4: Displayed (Double-sized original is counted as 2.)	1

Setting mode (08) <e-STUDIO352/353/452/453>								
Code	Classifi- cation	Items		Func- tion	Default <Accept- able value>	RAM	Contents	Pro- cedur e
305-0	Counter	Number of output pages in copier func- tion	A3	PPC	0 <8 digits>	SYS	Counts the output pages in the copier function for each paper size according to the setting for the count setting of large-sized paper (08-352) and the definition setting of largesized paper (08- 353).	4
305-1			A4					
305-2			A5					
305-3			A6					
305-4			B4					
305-5			B5					
305-6			FOLIO					
305-7			LD					
305-8			LG					
305-9			LT					
305-10			ST					
305-11			COMP					
305-12			13"LG					
305-13			8.5" x 8.5"					
305-14			16K					
305-15			8K					
305-16			Others					
306-0	Counter	Number of output pages in Printer Function	A3	PRT	0 <8 digits>	SYS	Counts the output pages in the printer function for each paper size according to the setting for the count setting of large-sized paper (08-352) and the definition setting of largesized paper (08- 353).	4
306-1			A4					
306-2			A5					
306-3			A6					
306-4			B4					
306-5			B5					
306-6			FOLIO					
306-7			LD					
306-8			LG					
306-9			LT					
306-10			ST					
306-11			COMP					
306-12			13"LG					
306-13			8.5" x 8.5"					
306-14			16K					
306-15			8K					
306-16			Others					

Setting mode (08) <e-STUDIO352/353/452/453>								
Code	Classifi- cation	Items		Func- tion	Default <Accept- able value>	RAM	Contents	Pro- cedur e
307-0	Counter	Number of output pages at List Print Mode	A3	PRT	0 <8 digits>	SYS	Counts the output pages at the List Print Mode for each paper size according to the setting for the count setting of large-sized paper (08-352) and the definition setting of largesized paper (08- 353).	4
307-1			A4					
307-2			A5					
307-3			A6					
307-4			B4					
307-5			B5					
307-6			FOLIO					
307-7			LD					
307-8			LG					
307-9			LT					
307-10			ST					
307-11			COMP					
307-12			13"LG					
307-13			8.5" x 8.5"					
307-14			16K					
307-15			8K					
307-16			Others					
308-0	Counter	Number of output pages in FAX Func- tion	A3	FAX	0 <8 digits>	SYS	Counts the output pages in the FAX Func- tion for each paper size according to the setting for the count setting of large-sized paper (08- 352) and the definition setting of largesized paper (08-353).	4
308-1			A4					
308-2			A5					
308-3			A6					
308-4			B4					
308-5			B5					
308-6			FOLIO					
308-7			LD					
308-8			LG					
308-9			LT					
308-10			ST					
308-11			COMP					
308-12			13"LG					
308-13			8.5" x 8.5"					
308-14			16K					
308-15			8K					
308-16			Others					

Setting mode (08) <e-STUDIO352/353/452/453>								
Code	Classifi- cation	Items		Func- tion	Default <Accept- able value>	RAM	Contents	Pro- cedur e
312-0	Counter	Number of scanning pages in Copier Func- tion	A3	PPC	0 <8 digits>	SYS	Counts the scanning pages in the Copier Function for each paper size according to the setting for the count setting of largesized paper (08-352) and the definition setting of largesized paper (08- 353).	4
312-1			A4					
312-2			A5					
312-3			A6					
312-4			B4					
312-5			B5					
312-6			FOLIO					
312-7			LD					
312-8			LG					
312-9			LT					
312-10			ST					
312-11			COMP					
312-12			13"LG					
312-13			8.5" x 8.5"					
312-14			16K					
312-15			8K					
312-16			Others					
313-0	Counter	Number of scanning pages in Scanning Function	A3	SCN	0 <8 digits>	SYS	Counts the scanning pages in the Scanning Function for each paper size according to the setting for the count setting of large-sized paper (08-352) and the definition setting of largesized paper (08- 353).	4
313-1			A4					
313-2			A5					
313-3			A6					
313-4			B4					
313-5			B5					
313-6			FOLIO					
313-7			LD					
313-8			LG					
313-9			LT					
313-10			ST					
313-11			COMP					
313-12			13"LG					
313-13			8.5" x 8.5"					
313-14			16K					
313-15			8K					
313-16			Others					

Setting mode (08) <e-STUDIO352/353/452/453>								
Code	Classifi- cation	Items		Func- tion	Default <Accept- able value>	RAM	Contents	Pro- cedur e
314-0	Counter	Number of scanning pages in FAX Function	A3	FAX	0 <8 digits>	SYS	Counts the scanning pages in the FAX Func- tion for each paper size according to the setting for the count setting of large-sized paper (08- 352) and the definition setting of largesized paper (08-353).	4
314-1			A4					
314-2			A5					
314-3			A6					
314-4			B4					
314-5			B5					
314-6			FOLIO					
314-7			LD					
314-8			LG					
314-9			LT					
314-10			ST					
314-11			COMP					
314-12			13"LG					
314-13			8.5" x 8.5"					
314-14			16K					
314-15			8K					
314-16			Others					
315-0	Counter	Number of transmitted pages in FAX Function	A3	FAX	0 <8 digits>	SYS	Counts the transmitted pages in the FAX Func- tion for each paper size according to the setting for the count setting of large-sized paper (08- 352) and the definition setting of largesized paper (08-353).	4
315-1			A4					
315-2			A5					
315-3			A6					
315-4			B4					
315-5			B5					
315-6			FOLIO					
315-7			LD					
315-8			LG					
315-9			LT					
315-10			ST					
315-11			COMP					
315-12			13"LG					
315-13			8.5" x 8.5"					
315-14			16K					
315-15			8K					
315-16			Others					

Setting mode (08) <e-STUDIO352/353/452/453>								
Code	Classifi- cation	Items		Func- tion	Default <Accept- able value>	RAM	Contents	Pro- cedur e
316-0	Counter	Number of received pages in FAX Function	A3	FAX	0 <8 digits>	SYS	Counts the received pages in the FAX Func- tion for each paper size according to the setting for the count setting of large-sized paper (08- 352) and the definition setting of largesized paper (08-353).	4
316-1			A4					
316-2			A5					
316-3			A6					
316-4			B4					
316-5			B5					
316-6			FOLIO					
316-7			LD					
316-8			LG					
316-9			LT					
316-10			ST					
316-11			COMP					
316-12			13"LG					
316-13			8.5" x 8.5"					
316-14			16K					
316-15			8K					
316-16			Others					
320-0	Counter	Display of number of output pages in Copier Function	Large	PPC	0 <8 digits>	SYS	Counts the number of output pages in the Copier Function according to its size (large/small). Large: Number of output pages of large-sized paper defined at 08- 353 Small: Number of output pages other than set as large-sized paper Total: Total number out- put pages of all paper sizes.	14
320-1	Counter		Small	PPC	0 <8 digits>	SYS		14
320-2	Counter		Total	PPC	0 <8 digits>	SYS		14
321-0	Counter	Display of number of output pages in Printer Function	Large	PRT	0 <8 digits>	SYS	Counts the number of output pages in the Printer Function according to its size (large/small). Large: Number of output pages of large-sized paper defined at 08- 353 Small: Number of output pages other than set as large-sized paper Total: Total number out- put pages of all paper sizes.	14
321-1	Counter		Small	PRT	0 <8 digits>	SYS		14
321-2	Counter		Total	PRT	0 <8 digits>	SYS		14

Setting mode (08) <e-STUDIO352/353/452/453>								
Code	Classification	Items		Function	Default <Acceptable value>	RAM	Contents	Procedure
322-0	Counter	Display of number of output pages at List Print Mode	Large	PRT	0 <8 digits>	SYS	Counts the number of output pages at the List Print Mode Function according to its size (large/small). Large: Number of output pages of large-sized paper defined at 08- 353 Small: Number of output pages other than set as large-sized paper Total: Total number out- put pages of all paper sizes.	14
322-1	Counter		Small	PRT	0 <8 digits>	SYS		14
322-2	Counter		Total	PRT	0 <8 digits>	SYS		14
323-0	Counter	Display of number of output pages in FAX Func- tion	Large	FAX	0 <8 digits>	SYS	Counts the number of output pages in the FAX Function according to its size (large/small). Large: Number of output pages of large-sized paper defined at 08- 353 Small: Number of output pages other than set as large-sized paper Total: Total number out- put pages of all paper sizes.	14
323-1	Counter		Small	FAX	0 <8 digits>	SYS		14
323-2	Counter		Total	FAX	0 <8 digits>	SYS		14
327-0	Counter	Display of number of scanning pages in Copier Func- tion	Large	PPC	0 <8 digits>	SYS	Counts the number of scanning pages in the Copier Function according to its size (large/small). Large: Number of output pages of large-sized paper defined at 08- 353 Small: Number of output pages other than set as large-sized paper Total: Total number out- put pages of all paper sizes.	14
327-1	Counter		Small	PPC	0 <8 digits>	SYS		14
327-2	Counter		Total	PPC	0 <8 digits>	SYS		14



Setting mode (08) <e-STUDIO352/353/452/453>								
Code	Classification	Items		Function	Default <Acceptable value>	RAM	Contents	Procedure
328-0	Counter	Display of number of scanning pages in FAX Function	Large	FAX	0 <8 digits>	SYS	Counts the number of scanning pages in the FAX Function according to its size (large/small). Large: Number of output pages of large-sized paper defined at 08- 353 Small: Number of output pages other than set as large-sized paper Total: Total number out- put pages of all paper sizes.	14
328-1	Counter		Small	FAX	0 <8 digits>	SYS		14
328-2	Counter		Total	FAX	0 <8 digits>	SYS		14
329-0	Counter	Display of number of scanning pages in Scanning Function	Large	SCN	0 <8 digits>	SYS	Counts the number of scanning pages in the Scanning Function according to its size (large/small). Large: Number of output pages of large-sized paper defined at 08- 353 Small: Number of output pages other than set as large-sized paper Total: Total number out- put pages of all paper sizes.	14
329-1	Counter		Small	SCN	0 <8 digits>	SYS		14
329-2	Counter		Total	SCN	0 <8 digits>	SYS		14
330-0	Counter	Display of number of transmitted pages in FAX Function	Large	FAX	0 <8 digits>	SYS	Counts the number of transmitted pages in the FAX Function according to its size (large/small). Large: Number of output pages of large-sized paper defined at 08- 353 Small: Number of output pages other than set as large-sized paper Total: Total number out- put pages of all paper sizes.	14
330-1	Counter		Small	FAX	0 <8 digits>	SYS		14
330-2	Counter		Total	FAX	0 <8 digits>	SYS		14

Setting mode (08) <e-STUDIO352/353/452/453>								
Code	Classification	Items		Function	Default <Acceptable value>	RAM	Contents	Procedure
331	User interface	Default setting of screen		ALL	0 <0-5>	SYS	Sets the screen to be displayed after the auto-clear time has passed or it has recovered from the energy saving mode or sleep mode. 0: Copier 1: Fax 2: Scan 3: Box 4: Job Status 5: Template	1
332-0	Counter	Display of number of received pages in FAX Function	Large	FAX	0 <8 digits>	SYS	Counts the number of received pages in the FAX Function according to its size (large/small). Large: Number of output pages of large-sized paper defined at 08-353 Small: Number of output pages other than set as large-sized paper Total: Total number output pages of all paper sizes.	14
332-1	Counter		Small	FAX	0 <8 digits>	SYS		14
332-2	Counter		Total	FAX	0 <8 digits>	SYS		14
335-0	Counter	Display of total number of pages	Large	ALL	0 <8 digits>	SYS	Displays the total number of pages in the Copier/Printer/Scanning/FAX Functions.	14
335-1	Counter		Small	ALL	0 <8 digits>	SYS		14
335-2	Counter		Total	ALL	0 <8 digits>	SYS		14
342	User interface	Displaying number of original pages placed on original glass		PPC	0 <0-1>	SYS	This setting is whether the number of pages of originals placed on the original glass is displayed or not. 0: Not displayed 1: Displayed	1
344	Counter	Count setting of tab paper (PM)		ALL	1 <0-1>	M	0: Counted as 1 1: Counted as 2	1
346	Counter	Count setting of large-sized paper (PM)		ALL	1 <0-1>	M	0: Counted as 1 1: Counted as 2	1
347	Counter	Definition setting of large-sized paper (PM)		ALL	1 <0-1>	M	0: A3/LD 1: A3/LD/B4/LG/FOLIO/COMP	1
348	Counter	Count setting of thick paper (PM)		ALL	1 <0-1>	M	0: Counted as 1 1: Counted as 2	1
349	Counter	Count setting of OHP film (PM)		ALL	1 <0-1>	M	0: Counted as 1 1: Counted as 2	1

Setting mode (08) <e-STUDIO352/353/452/453>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
352	Counter	Count setting of large-sized paper (Fee charging system counter)	ALL	JPN: 0 OTHER: 1 <0-2>	M	0: Counted as 1 1: Counted as 2 2: Counted as 1 (Mechanical counter is double counter)	1
353	Counter	Definition setting of large-sized paper (Fee charging system counter)	ALL	0 <0-1>	M	0: A3/LD 1: A3/LD/B4/LG/ FOLIO/COMP/8k	1
356	Counter	Counter for upper drawer feeding	ALL	0 <8 digits>	M	Counts the number of sheets fed from upper drawer	2
357	Counter	Counter for lower drawer feeding	ALL	0 <8 digits>	M	Counts the number of sheets fed from lower drawer	2
358	Counter	Counter for bypass feeding	ALL	0 <8 digits>	M	Counts the number of sheets fed from bypass feed	2
359	Counter	Counter for LCF feeding	ALL	0 <8 digits>	M	Counts the number of sheets fed from LCF	2
360	Counter	Counter for PFP upper drawer feeding	ALL	0 <8 digits>	M	Counts the number of sheets fed from PFP upper drawer	2
370	Counter	Counter for PFP lower drawer feeding	ALL	0 <8 digits>	M	Counts the number of sheets fed from PFP lower drawer	2
372	Counter	Counter for ADU	ALL	0 <8 digits>	M	Counts the number of output pages of duplex printing.	2
374	Counter	Counter for RADF	ALL	0 <8 digits>	SYS	Counts the number of originals fed from RADF	2
381	Counter	Setting for counter installed externally	ALL	1 <0-7>	M	Selects the job to count up for the external counter. 0: Not selected 1: Copier 2: FAX 3: Copier/FAX 4: Printer 5: Copier/Printer 6: Printer/FAX 7: Copier/Printer/FAX	1
390	Counter	Number of errors in HDD (Copier)	PPC	0 <8 digits>	SYS	The number of error is reset at HDD formatting.	2
391	Counter	Number of errors in HDD (FAX)	FAX	0 <8 digits>	SYS		2
392	Counter	Number of errors in HDD (Scanning)	SCN	0 <8 digits>	SYS		2
393	Counter	Number of errors in HDD (Printer)	PRT	0 <8 digits>	SYS		2
398	Laser	Number of polygonal motor rotational speed switching	ALL	0 <8 digits>	M	Counts the number of time the polygonal motor has switched its rotational speed between normal rotation and standby rotation	2

Setting mode (08) <e-STUDIO352/353/452/453>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
399	Laser	Accumulated time of polygonal motor at normal rotation	ALL	0 <8 digits>	M	Accumulates the time the polygonal motor has rotated at normal rotation.	2
400	Fuser	Fuser unit error status counter	ALL	0 <0-19>	M	0: No error 1: C411(Once) 2: C410(consecutively occurred) 3: - 4: - 5: C440 6: C450 7: C440 8: C450 9: C440 10: C470 11: C470 12: C480 13: C480 14: C470 15: C480 16: C490 17: C470 18: C480 19: C490	1
409	Fuser	Fuser roller temperature at a energy saver mode (Center thermistor)	ALL	0 <0-13>	M	0: OFF 1: 40°C 2: 50°C 3: 60°C 4: 70°C 5: 80°C 6: 90°C 7: 100°C 8: 110°C 9: 120°C 10: 130°C 11: 140°C 12: 150°C 13: 160°C	1
410	Fuser	Fuser roller temperature during printing (Center thermistor/Plain paper)	ALL	12 <0-14>	M	0: 140°C 1: 145°C 2: 150°C 3: 155°C 4: 160°C 5: 165°C 6: 170°C 7: 175°C 8: 180°C 9: 185°C 10: 190°C 11: 195°C 12: 200°C 13: 205°C 14: 210°C	1
411	Fuser	Fuser roller temperature on standby (Center thermistor)	ALL	12 <0-12>	M	0: 140°C 1: 145°C 2: 150°C 3: 155°C 4: 160°C 5: 165°C 6: 170°C 7: 175°C 8: 180°C 9: 185°C 10: 190°C 11: 195°C 12: 200°C	1
412	Fuser	Fuser roller temperature during printing (Center thermistor/Thick paper 3)	ALL	12 <0-14>	M	1: 140°C 1: 145°C 3: 150°C 4: 155°C 5: 160°C 6: 165°C 7: 170°C 8: 175°C 9: 180°C 10: 185°C 11: 190°C 12: 195°C 13: 200°C 14: 210°C	1
413	Fuser	Fuser roller temperature during printing (Center thermistor/Thick paper 1)	ALL	12 <0-14>	M	0: 140°C 1: 145°C 2: 150°C 3: 155°C 4: 160°C 5: 165°C 6: 170°C 7: 175°C 8: 180°C 9: 185°C 10: 190°C 11: 195°C 12: 200°C 13: 210°C	1
414	Developer	Toner density correction-setting	ALL	0 <0-8>	M	0: Invalid 1: +3bit 2: +6bit 3: +9bit 4: +12bit 5: -3bit 6: -6bit 7: -9bit 8: -12bit	1

Setting mode (08) <e-STUDIO352/353/452/453>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
417	Fuser	Pre-running time for first printing (Thick paper 3)	ALL	0 <0-15>	M	0: Invalid 1: 1 sec. 2: 2 sec. 3: 3 sec. 4: 4 sec. 5: 5 sec. 6: 6 sec. 7: 7 sec. 8: 8 sec. 9: 9 sec. 10: 10 sec. 11: 12 sec. 12: 14 sec. 13: 16 sec. 14: 18 sec. 15: 20 sec.	1
419	Image Processing	Black band pattern between sheets of paper	ALL	0 <0-20>	M	Sets whether or not a black band pattern is formed on the drum between two sheets of paper being transported. 0: Invalid 1 to 20: Black band width (Unit: mm)	1
420	Fuser	Pre-running time at warming-up	ALL	JPN: 3 UC: 4 EUR: 4 <0-10>	M	0: Invalid 1: 1 sec. 2: 2 sec. 3: 3 sec. 4: 4 sec. 5: 5 sec. 6: 6 sec. 7: 7 sec. 8: 8 sec. 9: 9 sec. 10: 10 sec.	1
437	Fuser	Fuser roller temperature during printing (Center thermistor /Thick paper 2)	ALL	12 <0-14>	M	0: 140°C 1: 145°C 2: 150°C 3: 155°C 4: 160°C 5: 165°C 6: 170°C 7: 175°C 8: 180°C 9: 185°C 10: 190°C 11: 195°C 12: 200°C 13: 205°C 14: 210°C	1
438	Fuser	Fuser roller temperature during printing (Center thermistor/OHP film)	ALL	12 <0-14>	M	0: 140°C 1: 145°C 2: 150°C 3: 155°C 4: 160°C 5: 165°C 6: 170°C 7: 175°C 8: 180°C 9: 185°C 10: 190°C 11: 195°C 12: 200°C 13: 205°C 14: 210°C	1
439	Fuser	Pre-running time for first printing (Thick paper 2)	ALL	0 <0-15>	M	0: Invalid 1: 1 sec. 2: 2 sec. 3: 3 sec. 4: 4 sec. 5: 5 sec. 6: 6 sec. 7: 7 sec. 8: 8 sec. 9: 9 sec. 10: 10 sec. 11: 12 sec. 12: 14 sec. 13: 16 sec. 14: 18 sec. 15: 20 sec.	1

Setting mode (08) <e-STUDIO352/353/452/453>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
440	Fuser	Pre-running time for first printing (Plain paper)	ALL	0 <0-15>	M	0: Invalid 1: 1 sec. 2: 2 sec. 3: 3 sec. 4: 4 sec. 5: 5 sec. 6: 6 sec. 7: 7 sec. 8: 8 sec. 9: 9 sec. 10: 10 sec. 11: 12 sec. 12: 14 sec. 13: 16 sec. 14: 18 sec. 15: 20 sec.	1
441	Fuser	Pre-running time for first printing (Thick paper 1)	ALL	0 <0-15>	M	0: Invalid 1: 1 sec. 2: 2 sec. 3: 3 sec. 4: 4 sec. 5: 5 sec. 6: 6 sec. 7: 7 sec. 8: 8 sec. 9: 9 sec. 10: 10 sec. 11: 12 sec. 12: 14 sec. 13: 16 sec. 14: 18 sec. 15: 20 sec.	1
449	Paper feeding	Incorrect paper size jam detection switching	ALL	0 <0-1>	M	0: Enabled 1: Disabled	1
455	Image processing	Toner supply amount correction setting	ALL	0 <0-2>	M	Corrects the period of the toner motor rotation time during toner supply. 0: 100% 1: 90% 2: 80%	1

Setting mode (08) <e-STUDIO352/353/452/453>							
Code	Classification	Items		Function	Default <Acceptable value>	RAM	Contents
462	RADF	Setting for switchback operation in mixed-size copying using RADF		ALL	0 <0-2>	M	<p>This setting is whether the original length is detected or not by transporting without scanning in reverse when A4-R/FOLIO paper or LT-R/LG paper is detected in a mixed-size copying.</p> <p>0: Disabled -</p> <p>AMS:</p> <p>A series - Judges as A4-R without transporting in reverse with no scanning.</p> <p>LT series - Judges whether it is LT-R or LG by its length without transporting in reverse with no scanning.</p> <p>APS:</p> <p>A series - Judges whether it is A4-R or FOLIO without transporting in reverse with no scanning.</p> <p>LT series - Judges whether it is LT-R or LG without transporting in reverse with no scanning.</p> <p>1: Enable 1</p> <p>AMS:</p> <p>A series - Judges whether it is A4-R or FOLIO by transporting without scanning in reverse to detect its length.</p> <p>LT series - Judges whether it is LT-R or LG by transporting without scanning in reverse to detect its length.</p> <p>APS:</p> <p>The same as that of APS in 0: Disabled.</p> <p>2: Enable 2</p> <p>AMS/APS:</p> <p>The same as that of AMS in 1: Enable 1.</p>
463-0	Paper feeding	Feeding retry number setting (upper drawer)	Plain paper	ALL	5 <0-5>	M	Sets the number of times of the feeding retry from the upper drawer.
463-1			Others	ALL	5 <0-5>	M	

Setting mode (08) <e-STUDIO352/353/452/453>								
Code	Classification	Items		Function	Default <Acceptable value>	RAM	Contents	Procedure
464-0	Paper feeding	Feeding retry number setting (lower drawer)	Plain paper	ALL	5 <0-5>	M	Sets the number of times of the feeding retry from the lower drawer.	4
464-1			Others	ALL	5 <0-5>	M		4
465-0	Paper feeding	Feeding retry number setting (PFP upper drawer)	Plain paper	ALL	5 <0-5>	M	Sets the number of times of the feeding retry from the PFP upper drawer.	4
465-1			Others	ALL	5 <0-5>	M		4
466-0	Paper feeding	Feeding retry number setting (PFP lower drawer)	Plain paper	ALL	5 <0-5>	M	Sets the number of times of the feeding retry from the PFP lower drawer.	4
466-1			Others	ALL	5 <0-5>	M		4
467-0	Paper feeding	Feeding retry number setting (bypass feed)	Plain paper	ALL	5 <0-5>	M	Sets the number of times of the feeding retry from the bypass tray.	4
467-1			Others	ALL	5 <0-5>	M		4
468-0	Paper feeding	Feeding retry number setting (LCF)	Plain paper	ALL	5 <0-5>	M	Sets the number of times of the feeding retry from the LCF.	4
468-1			Others	ALL	5 <0-5>	M		4
469	Fan	Speed switching for sub-separation fan		ALL	0 <0-1>	M	0: High speed 1: Low speed	1
471	Paper feeding	Paper size (Post card) feeding/width wise direction		ALL	148/100 <148-432/100-297>	M	* Post card is supported only for JPN model.	10
472	Fan	Speed switching for middle fan		ALL	0 <0-1>	M	0: High speed 1: Low speed	1
478	Laser	Judged number of polygonal motor rotation error (Normal rotation)		ALL	0 <0-1>	M	Displays the error [CA10] when the set number of rotation error has been detected. 0: 2 times 1: 12 times	1
479	Laser	Judged number of polygonal motor rotation error (At acceleration/deceleration)		ALL	0 <0-1>	M	0: Waiting time for polygonal motor rotation overshooting 0.6 sec. 1: Waiting time for polygonal motor rotation overshooting 2.2 sec.	1
480	Paper feeding	Default setting of paper source		PPC	0 <0-5>	SYS	0: A4/LT 1: LCF 2: Upper drawer 3: Lower drawer 4: PFP upper drawer 5: PFP lower drawer	1



Setting mode (08) <e-STUDIO352/353/452/453>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
481	Paper feeding	Automatic change of paper source	PPC	1 <0-2>	SYS	Sets whether or not changing the drawer automatically to the other drawer with the paper of the same size when paper in the selected drawer has run out. 0: OFF 1: ON (Changes to the drawer with the same paper direction and size: ex. A4 to A4) 2: ON (Changes to the drawer with the same paper size. Paper with the different direction is acceptable as long as the size is the same: ex., A4 to A4-R, LT-R to LT. "1" is applied when the staple/holepunch is specified.)	1
482	Paper feeding	Feeding retry setting	ALL	0 <0-1>	M	0: ON 1: OFF	1
483	Laser	Pre-running rotation of polygonal motor	ALL	0 <0-2>	SYS	Sets whether or not switching the polygonal motor from the standby rotation to the normal rotation when the original is set on the RADF or the platen cover is opened. 0: Valid (when using RADF and the original is set manually) 1: Invalid 2: Valid (when using RADF only)	1
484	Laser	Polygonal motor rotational status switching at the Auto Clear Mode	ALL	0 <0-1>	SYS	Sets whether or not switching the polygonal motor from the normal rotation to the standby rotation at the Auto Clear Mode. 0: Valid 1: Invalid	1
485	Laser	Rotational status of polygonal motor on standby	ALL	0 <0-1>	SYS	Sets the rotational status of polygonal motor on standby. 0: Rotated (The rotational speed is set at 08-490.) 1: Stopped	1

Setting mode (08) <e-STUDIO352/353/452/453>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
486	Laser	Timing of auto-clearing of polygonal motor pre-running rotation	ALL	0 <0-2>	SYS	Switches the polygonal motor to the standby rotation when a certain period of time has passed from the pre-running. At this code, the period to switch the status to the standby rotation is set. 0: 15 sec. 1: 30 sec. 2: 45 sec. * This setting is effective when "0" or "2" is set at 08-483.	1
488	Laser	Setting of polygonal motor type	ALL	3 <2-3>	M	Set the type of polygonal motor. 2: 2 clock type 3: 3 clock type	1
489	Laser	Polygonal motor rotation number on standby	ALL	5 <0-5>	M	0: 38090.55rpm 1: 35000rpm 2: 30000rpm 3: 25000rpm 4: 20000rpm 5: 10000rpm	1
490	Laser	Polygonal motor rotation in the energy saving mode	ALL	0 <0-1>	M	0: Stopped 1: 10000rpm	1
491	Transfer	Transfer charger bias correction (L) at duplexing	ALL	165 <0-255>	M	Corrects the transfer charger bias output value of the leading edge area of paper at duplexing.	1
492	Transfer	Transfer charger bias correction (H) at duplexing	ALL	106 <0-255>	M	Corrects the transfer charger bias output value of the center area of paper at duplexing.	1
493	Transfer	Transfer charger bias correction (L) at duplexing	ALL	128 <0-255>	M	Corrects the transfer charger bias output value of the trailing edge area of paper at duplexing.	1
502	Image	Error diffusion and dither setting at photo mode	PPC	1 <0-1>	SYS	Sets the image reproduction method at photo mode. 0: Error diffusion 1: Dither	1
503	User interface	Default setting of density adjustment	PPC	0 <0-1>	SYS	0: Automatic 1: Manual (Center)	1
508	Image	Custom Mode setting	PPC	0 <0-3>	SYS	0: Not used 1: Custom Mode 1 when Text/Photo is set as a base 2: Custom Mode 2 when Text is set as a base 3: Custom Mode 3 when Photo is set as a base	1

Setting mode (08) <e-STUDIO352/353/452/453>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
509	Image	Error diffusion and dither setting at a photo mode (Custom Mode)	PPC	1 <0-1>	SYS	Switches the image processing method when Custom Mode 3 is set. 0: Error diffusion 1: Dither	1
526	Fuser	Pre-running time for first printing (OHP film)	ALL	6 <0-15>	M	0: Invalid 1: 0 sec. 2: 2 sec. 3: 3 sec. 4: 4 sec. 5: 5 sec. 6: 6 sec. 7: 7 sec. 8: 8 sec. 9: 9 sec. 10: 10 sec. 11: 12 sec. 12: 14 sec. 13: 16 sec. 14: 18 sec. 15: 20 sec.	1
550	Image	Default setting of Original mode	PPC	0 <0-3>	SYS	0: Text/Photo 1: Photo 2: Text 3: Custom Mode	1
601	User interface	Setting for the EnergySaving Mode	ALL	0 <0-1>	SYS	0: Auto Shut Off Mode 1: Sleep Mode	1
602	User interface	Screen setting for Auto power Save Mode and Auto Shut OFF Mode	ALL	EUR:0 UC:1 JPN:1 <0-1>	SYS	0: OFF 1: ON	1
603	User interface	Setting for automatic duplexing mode	ALL	0 <0-3>	SYS	0: Invalid 1: Single-sided to duplex copying 2: Double-sided to duplex copying 3: User selection	1
604	User interface	Default setting for APS/AMS	ALL	0 <0-2>	SYS	0: APS (Automatic Paper Selection) 1: AMS (Automatic Magnification Selection) 2: Not selected	1
605	User interface	Centering printing of primary/secondary direction at AMS	PPC	1 <0-1>	SYS	0: Invalid 1: Valid	1
607	User interface	Default setting of RADF mode	PPC	0 <0-1>	SYS	0: Continuous feeding (by pressing the [START] button) 1: Single feeding (by setting original on the tray)	1
610	User interface	Key touch sound of control panel	ALL	1 <0-1>	SYS	0: OFF 1: ON	1
611	User interface	Book type original priority	PPC	0 <0-1>	SYS	0: Left page to right page 1: Right page to left page	1
612	General	Summer time mode	ALL	0 <0-1>	SYS	0: Not summer time 1: Summer time	1

Setting mode (08) <e-STUDIO352/353/452/453>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
613	User interface	Paper size selection for [OTHER] button	PPC	EUR: FOLIO UC: COMP JPN: A5-R	SYS	Press the icon on the LCD to select the size.	9
614	Network	Local I/F time-out period	PRT	6 <1-50>	SYS	Sets the period of time when the job is judged as completed in local I/F printing (USB or parallel). 1: 1.0 sec. 2: 1.5 sec. -50: 25.5 sec. (in increments of 0.5 sec.)	1
615	General	Size information of main memory and page memory	ALL	-	SYS	Displays the sizes of the main memory and page memory. Enables to check if each memory is properly recognized.	2
617	User interface	Print setting without department code	ALL	1 <0-2>	SYS	0: Printed forcibly 1: Not printed 2: Deleted forcibly	1
618	User interface	Default setting when mixed size originals are set on RADF	PPC	0 <0-1>	SYS	0: Scanned as all in same size 1: Scanned as each original size	1
619	Paper feeding	Time lag before Auto Job Start of bypass feeding	ALL	4 <0-10>	SYS	Sets the time taken to add paper feeding when paper in the bypass tray has run out during the bypass feed copying. 0: Paper is not drawn in unless the [START] button is pressed. 1-10: Setting value x 0.5sec.	1
620	User interface	Department management setting (Copier)	PPC	1 <0-1>	SYS	0: Invalid 1: Valid	1
621	User interface	Department management setting (FAX)	FAX	1 <0-1>	SYS	0: Invalid 1: Valid	1
622	User interface	Department management setting (Printer)	PRT	1 <0-1>	SYS	0: Invalid 1: Valid	1
623	User interface	Department management setting (Scanner)	SCN	1 <0-1>	SYS	0: Invalid 1: Valid	1
624	User interface	Department management setting (List print)	PRT	1 <0-1>	SYS	0: Invalid 1: Valid	1
625	User interface	Blank copying prevention mode during RADF jamming	PPC	0 <0-1>	SYS	0: OFF 1: ON (Start printing when the scanning of each page is finished)	1
627	User interface	Rotation printing at the nonsorting	ALL	0 <0-1>	SYS	0: Not rotating 1: Rotating	1

Setting mode (08) <e-STUDIO352/353/452/453>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
628	User interface	Direction priority of original image	PPC	0 <0-1>	SYS	0: Automatic 1: Portrait	1
629	User interface	Department management setting	ALL	0 <0-1>	SYS	0: Invalid 1: Valid	1
633	Data overwrite kit	Releasing F200 service call (System ROM version: earlier than T364SY0*329)	ALL	0 <0-2>	SYS	0: Not used 1: Board installed (GP-1060) 2: Service call	1
634	User interface	Inner receiving tray priority at Non-sort Mode	ALL	0 <0-1>	SYS	0: Normal 1: Inner receiving tray	1
636	User interface	Width setting for image shift copying (linkage of front side and back side)	PPC	0 <0-1>	SYS	0: ON 1: OFF	1
638	General	Time differences	ALL	EUR: 24 UC: 40 JPN: 6 <0-47>	SYS	0: +12.0h 1: +11.5h 2: +11.0h 3: +10.5h 4: +10.0h 5: 9.5h 6: +9.0h 7: +8.5h 8: +8.0h 9: +7.5h 10: +7.0h 11: +6.5h 12: +6.0h 13: +5.5h 14: +5.0h 15: +4.5h 16: +4.0h 17: +3.5h 18: +3.0h 19: +2.5h 20: +2.0h 21: +1.5h 22: +1.0h 23: +0.5h 24: 0.0h 25: -0.5h 26: -1.0h 27: -1.5h 28: -2.0h 29: -2.5h 30: -3.0h 31: -3.5h 32: -4.0h 33: -4.5h 34: -5.0h 35: -5.5h 36: -6.0h 37: -6.5h 38: -7.0h 39: -7.5h 40: -8.0h 41: -8.5h 42: -9.0h 43: -9.5h 44: -10.0h 45: -10.5h 46: -11.0h 47: -11.5h	1
640	User interface	Date display format	ALL	EUR:1 UC:2 JPN:0 <0-2>	SYS	0: YYYY.MM.DD. 1: DD.MM.YYYY 2: MM.DD.YYYY	1
641	User interface	Automatic Sorting Mode setting (RADF)	PPC	2 <0-4>	SYS	0: Invalid 1: STAPLE 2: SORT 3: GROUP 4: ROTATE SORT	1
642	User interface	Default setting of Sorter Mode	PPC	0 <0-4>	SYS	0: NON-SORT 1: STAPLE 2: SORT 3: GROUP 4: ROTATE SORT	1

Setting mode (08) <e-STUDIO352/353/452/453>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
645	User interface	Correction of reproduction ratio in editing copy	PPC	10 <0-10>	SYS	Sets the reproduction ratio for the "X in 1" printing (including magazine sort) to the "Reproduction ratio x Correction ratio". 0: 90% 1: 91% 2: 92% 3: 93% 4: 94% 5: 95% 6: 96% 7: 97% 8: 98% 9: 99% 10: 100%	1
646	User interface	Image position in editing	PPC	2 <0-3>	SYS	Sets the page pasted position for "X in 1" to the upper left corner/center. 0: PPC:Corning/ PRT:Corning 1: PPC:Centering/ PRT:Corning 2: PPC:Corning/ PRT:Centering 3: PPC:Centering/ PRT:Centering	1
648	User interface	Returning finisher tray when printing is finished	ALL	0 <0-1>	SYS	Sets whether or not returning the finisher tray to the bin 1 when printing is finished. 0: Not returned 1: Returned	1
649	User interface	Magazine sort setting	PPC	0 <0-1>	SYS	0: Left page to right page 1: Right page to left page	1
650	User interface	2 in 1/4 in 1 page allocating order setting	PPC	0 <0-1>	SYS	0: Horizontal 1: Vertical	1
651	User interface	Printing format setting for Time Stamp and Page Number	PPC	2 <0-3>	SYS	Hyphen (with page number) /Dropout (with date, time and page number) 0: OFF/OFF 1: ON/OFF 2: OFF/ON 3: ON/ON <b>Note:</b> Hyphen printing format ON: -1- OFF: 1	1
652	User interface	Cascade operation setting	PPC	0 <0-1>	SYS	0: OFF 1: ON	1
653	User interface	Cascade operation setting	PRT	0 <0-1>	SYS	0: OFF 1: ON	1
657	User interface	Direction priority for date and time stamp printing	PPC	0 <0-1>	SYS	0: Short edge 1: Long edge	1

Setting mode (08) <e-STUDIO352/353/452/453>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
658	User interface	Auto Job Start setting for bypass feed printing	PRT	0 <0-1>	SYS	Sets whether or not feeding a paper automatically into the equipment when it is placed on the bypass tray. 0: OFF (Press the [START] button to start feeding.) 1: ON (Automatic feeding)	1
659	User interface	Auto Job start setting for bypass feed printing	PPC	1 <0-1>	SYS	Sets whether or not feeding a paper automatically into the equipment when it is placed on the bypass tray. 0: OFF (Press the [START] button to start feeding.) 1: ON (Automatic feeding)	1
660	Network	Auto-forwarding setting of received FAX	ALL	0 <0-1>	SYS	0: Invalid1: Valid	1
661	Network	Auto-forwarding setting of received E-mail	ALL	0 <0-1>	SYS	0: Invalid1: Valid	1
662	General	Clearing of SMS partition	ALL	-	SYS	Clears SMS partition. (Performs when the service call [F106] has occurred.)	3
665	General	M/SYS all clearing	ALL	-	M/ SYS	Initializes all the adjustment modesand the setting modes.	3
666	General	/SHA partition clearing	ALL	-	SYS	Initializes the Electronic Filing.	3
667	General	/SHA partition clearing	ALL	-	SYS	Initializes the shared folder.	3
669	General	System all clearing	ALL	-	SYS	Initializes system NVRAM area.	3
670	General	HDD diagnostic menu display	ALL	-	SYS	Display the HDD information	2
671	User interface	Size indicator	ALL	0 <0-1>	SYS	0: Invalid 1: Valid	1

Setting mode (08) <e-STUDIO352/353/452/453>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
672	General	Initialization of department management information	-	-	SYS	Initializing of the department management information * Key in the code and press the [INITIALIZE] button to perform the initialization. If the area storing the department management information is destroyed for some reason, "Enter Department Code" is displayed on the control panel even if the department management function is not set on. In this case, initialize the area with this code. This area is normally initialized at the factory.	3
673	General	Trial period setting	ALL	254 <1-60>	SYS	Sets the trial period from 1 to 60 days. This setting is effective only when the default value is "254". Once the default value is set, this value is only used for a reference.	1
678	General	Setting of banner advertising display	ALL	0 <0-1>	SYS	Sets whether or not displaying the banner advertising. The setting contents of 08-679 and 08-680 are displayed at the time display section on the right top of the screen. When both are set, each content is displayed alternately. 0: Not displayed 1: Displayed	1
679	General	Banner advertising display 1	ALL	-	SYS	Maximum 27 letters (one-byte character)	11
680	General	Banner advertising display 2	ALL	-	SYS	Maximum 27 letters (one-byte character)	11
681	General	Display of [BANNER MESSAGE] button	ALL	0 <0-1>	SYS	0: Not displayed 1: Displayed * This button enables the entry of "Banner advertising display 1 (08-679)" and "Banner advertising display 2 (08-680)" on the control panel.	1
682	Use interface	Offsetting between jobs	ALL	1 <0-1>	SYS	0: Invalid 1: Valid	1



Setting mode (08) <e-STUDIO352/353/452/453>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
683	General	Duplex printing setting when coin controller is used	ALL	1 <0-1>	SYS	When the duplex printing is short paid with a coin controller, reverse side of the original is not printed and is considered as a defect (printing job may be cleared). To solve this problem, the selection of printing method is enabled with this setting. 0: Invalid (Both sides printed) 1: Valid (Only one side printed)	1
684	General	Rebuilding all databases	ALL	-	SYS	Rebuilds all databases.	3
685	General	Rebuilding all databases related to Address Book	ALL	-	SYS	Rebuilds all databases related to the Address Book.	3
686	General	Rebuilding all databases related to log	ALL	-	SYS	Rebuilds all databases related to the logs.	3
689	FAX	Adaptation of paper source priority selection	FAX	0 <0-1>	SYS	0: Not subjected for APS judgment 1: Subjected for APS judgment	1
690	General	HDD formatting	ALL	- <2>	SYS	2: Normal formatting	7
691	General	HDD type display	ALL	- <0-2>	SYS	0: Not formatted 1: Not used 2: Normal format	7
692	Maintenance	Performing panel calibration	ALL	-	SYS	Performs the calibration of the pressing position on the touch panel (LCD screen). The calibration is performed by pressing 2 reference positions after this code is started up.	1
693	General	Initialization of NIC information	ALL	-	SYS	Returns the value to the factory shipping default value.	3
694	General	Performing HDD testing	ALL	-	SYS	Checks the bad sector.	3
695	General	Sets when the end of trial period is notified.	PRT/ SCN	3 <0-59>	SYS	Sets when the end of trial period is notified. 0: On the day it ends 1 to 59: n days before	1
696	Scrambler board	Installation of scrambler board (Option)	ALL	0 <0-1>	-	0: Not installed 1: Installed	2
697	Paper feeding	Paper type priority	PPC	1 <1-2>	SYS	Sets the paper type priority during copying. 1: Plain paper 2: Thick paper 1	1

Setting mode (08) <e-STUDIO352/353/452/453>								
Code	Classifi- cation	Items		Func- tion	Default <Accept- able value>	RAM	Contents	Pro- cedur e
698	Scram- bler board	Entering the key code for scrambler board		ALL	-	-	Start up this code and have the user enter the key code. Once the key code has been set, this code can- not be set again on security grounds.	5
699	Scram- bler board	Erasing all data in HDD		ALL	-	-	This setting is effective only when the scram- bler board is installed.	3
701	FAX	Destination setting for FAX		FAX	EUR: 5 UC: 4 JPN: 0 Other: 1 <0-25>	SYS	0: Japan 1: Asia 2: Australia 3: Hong Kong 4: U.S.A./Canada 5: Germany 6: U.K. 7: Italy 8: Belgium 9: Netherlands 10: Finland 11: Spain 12: Austria 13: Switzerland 14: Sweden 15: Denmark 16: Norway 17: Portugal 18: France 19: Greece 20: Poland 21: Hungary 22: Czech 23: Turkey 24: South Africa 25: Taiwan	1
702	Mainte- nance	Remote-controlled service function		ALL	2 <0-2>	SYS	0: Valid (Remote-con- trolled server) 1: Valid (L2) 2: Invalid	1
703	Mainte- nance	Remote-controlled service HTTP server URL setting		ALL	-	SYS	Maximum 256 Bytes	11
704-0	User interface	Interruption of stapling oper- ation (no sta- ple)	Copying	ALL	1 <0-1>	SYS	0: Continues printing by switching sort setting 1: Interrupts printing	4
704-1			Printing / BOX print- ing	ALL	1 <0-1>	SYS	0: Continues printing by switching sort setting 1: Interrupts printing	4
707	Mainte- nance	Remote-controlled service HTTP initially-registered server URL setting		ALL	https:// device.mf p-sup- port.com: 443/ device/fir- streg- ist.ashx	SYS	Maximum 256 Bytes	11

Setting mode (08) <e-STUDIO352/353/452/453>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
710	Maintenance	Short time interval setting of recovery from Emergency Mode	ALL	24 <1-48>	SYS	Sets the time interval to recover from the Emergency Mode to the Normal Mode. (Unit: Hour)	1
711	Maintenance	Short time interval setting of Emergency Mode	ALL	60 <30-360>	SYS	Unit: Minute	1
715	Maintenance	Remote-controlled service periodical polling timing (Hour/Hour/Minute/Minute)	ALL	1230	SYS	0 (0:00) to 2359 (23:59)	1
716	Maintenance	Remote-controlled service Writing data of self-diagnostic code	ALL	0 <0-1>	SYS	0: Prohibited 1: Accepted	1
717	Maintenance	Remote-controlled service response waiting time (Timeout)	ALL	3 <1-30>	SYS	Unit: Minute	1
718	Maintenance	Remote-controlled service initial registration	ALL	0 <0-3>	SYS	0: OFF 1: Start 2: Only certification is scanned 3: Sattelite communication starts	1
719	Maintenance	Remote-controlled service tentative password	ALL	-	SYS	Maximum 10 letters	11
720	Maintenance	Status of remote-controlled service initial registration (Display only)	ALL	0 <0-1>	SYS	0: Not registered 1: Registered	2
721	Maintenance	Service center call function	ALL	2 <0-2>	SYS	0: OFF 1: Notifies all service calls 2: Notifies all but paper jams	1
723	Maintenance	Service center call HTTP server URL setting	ALL	-	SYS	Maximum 256 letters	11
726	Maintenance	HTTP proxy setting	ALL	1 <0-1>	SYS	0: Valid 1: Invalid	1
727	Maintenance	HTTP proxy IP address setting	ALL	-	SYS	000.000.000.000 - 255.255.255.255 (Default value 000.000.000.000)	11
728	Maintenance	HTTP proxy port number setting	ALL	0 <0-65535>	SYS		1
729	Maintenance	HTTP proxy ID setting	ALL	-	SYS	Maximum 30 letters	11
730	Maintenance	HTTP proxy password setting	ALL	-	SYS	Maximum 30 letters	11
731	Maintenance	HTTP proxy panel display	ALL	1 <0-1>	SYS	0: Valid 1: Invalid	1
732	Maintenance (Remote)	Automatic ordering function of supplies	ALL	3 <0-3>	SYS	0: Ordered by FAX 1: Ordered by E-mail 2: Ordered by HTTP 3: OFF	1
733	Maintenance (Remote)	Automatic ordering function of supplies FAX number	ALL	-	SYS	Maximum 32 digits Enter hyphen with the [Monitor/Pause] button	11

Setting mode (08) <e-STUDIO352/353/452/453>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
734	Maintenance (Remote)	Automatic ordering function of supplies E-mail address	ALL	-	SYS	Maximum 192 letters List: 256 digits	11
738	Maintenance (Remote)	Automatic ordering function of supplies User's name	ALL	-	SYS	Maximum 50 letters	11
739	Maintenance (Remote)	Automatic ordering function of supplies User's telephone number	ALL	-	SYS	Maximum 32 digits Enter hyphen with the [Monitor/Pause] button	11
740	Maintenance (Remote)	Automatic ordering function of supplies User's E-mail address	ALL	-	SYS	Maximum 192 letters List: 256 digits	11
741	Maintenance (Remote)	Automatic ordering function of supplies User's address	ALL	-	SYS	Maximum 100 letters	11
742	Maintenance (Remote)	Automatic ordering function of supplies Service number	ALL	-	SYS	Maximum 5 digits	11
743	Maintenance (Remote)	Automatic ordering function of supplies Service technician's name	ALL	-	SYS	Maximum 50 letters	11
744	Maintenance (Remote)	Automatic ordering function of supplies Service technician's telephone number	ALL		SYS	Maximum 32 digits Enter hyphen with the [Monitor/Pause] button	11
745	Maintenance (Remote)	Automatic ordering function of supplies Service technician's E-mail address	ALL	-	SYS	Maximum 192 letters List: 256 digits	11
746	Maintenance (Remote)	Automatic ordering function of supplies Supplier's name	ALL	-	SYS	Maximum 50 letters	11
747	Maintenance (Remote)	Automatic ordering function of supplies Supplier's address	ALL	-	SYS	Maximum 100 letters	11
748	Maintenance (Remote)	Automatic ordering function of supplies Notes	ALL	-	SYS	Maximum 128 letters	11
758	Maintenance (Remote)	Information about supplies Part number of toner cartridge K	ALL	-	SYS	Maximum 20 digits	11
759	Maintenance (Remote)	Information about supplies Order quantity of toner cartridge K	ALL	1 <1-99>	SYS		1
760	Maintenance (Remote)	Information about supplies Condition number of toner cartridge K	ALL	1 <1-99>	SYS		1
761	Maintenance (Remote)	Information about supplies Part number of toner bag	ALL	-	SYS	Maximum 20 digits	11
762	Maintenance (Remote)	Information about supplies Order quantity of toner bag	ALL	1 <1-99>	SYS		1
763	Maintenance (Remote)	Information about supplies Condition number of toner bag	ALL	1 <1-99>	SYS		1

Setting mode (08) <e-STUDIO352/353/452/453>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
765	Maintenance (Remote)	Automatic ordering supplies Display	ALL	EUR: 2 UC: 0 JPN: 2 <0-2>	SYS	0: Valid (FAX/Internet FAX) 1: Valid (FAX/Internet FAX/ HTTP) 2: Invalid	1
767	Maintenance (Remote)	Service Notification setting	ALL	0 <0-2>	SYS	Enables to set up to 3 E-mail addresses to be sent. (08-768, 777, 778) 0: Invalid 1: Valid (E-mail) 2: Valid (FAX)	1
768	Maintenance (Remote)	Destination E-mail address	ALL	-	SYS	Maximum 192 letters	11
769	Maintenance (Remote)	Total counter information transmission setting	ALL	0 <0-1>	SYS	0: Invalid 1: Valid	1
770	Maintenance (Remote)	Total counter transmission date setting	ALL	0 <0-31>	SYS	0 to 31	1
771	Maintenance (Remote)	PM counter notification setting	ALL	0 <0-1>	SYS	0: Invalid 1: Valid	1
772	Maintenance	Dealer's name	ALL	-	SYS	Maximum 100 letters Needed at initial registration	11
773	Maintenance	Login name	ALL	-	SYS	Maximum 20 letters Needed at initial registration	11
774	Maintenance (Remote)	Display setting of [Service Notification] button	ALL	EUR: 0 UC: 1 JPN: 0 <0-1>	SYS	0: Not displayed 1: Displayed	1
775	Maintenance (Remote)	Sending error contents of equipment	ALL	0 <0-1>	SYS	0: Invalid 1: Valid	1
776	Maintenance (Remote)	Setting total counter transmission interval (Hour/Hour/Minute/Minute)	ALL	-	SYS		1
777	Maintenance (Remote)	Destination E-mail address 2	ALL	-	SYS	Maximum 192 letters	11
778	Maintenance (Remote)	Destination E-mail address 3	ALL	-	SYS	Maximum 192 letters	11
780	Maintenance	Remote-controlled service polling day selection Day-1	ALL	0 <0-31>	SYS	0: OFF 1 to 31: 1st to 31st of a month	1
781	Maintenance	Remote-controlled service polling day selection Day-2	ALL	0 <0-31>	SYS	0: OFF 1 to 31: 1st to 31st of a month	1

Setting mode (08) <e-STUDIO352/353/452/453>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
782	Maintenance	Remote-controlled service polling day selection Day-3	ALL	0 <0-31>	SYS	0: OFF 1 to 31: 1st to 31st of a month	1
783	Maintenance	Remote-controlled service polling day selection Day-4	ALL	0 <0-31>	SYS	0: OFF 1 to 31: 1st to 31st of a month	1
784	Maintenance	Remote-controlled service polling day selection Sunday	ALL	0 <0-1>	SYS	0: Invalid 1: Valid	1
785	Maintenance	Remote-controlled service polling day selection Monday	ALL	0 <0-1>	SYS	0: Invalid 1: Valid	1
786	Maintenance	Remote-controlled service polling day selection Tuesday	ALL	0 <0-1>	SYS	0: Invalid 1: Valid	1
787	Maintenance	Remote-controlled service polling day selection Wednesday	ALL	0 <0-1>	SYS	0: Invalid 1: Valid	1
788	Maintenance	Remote-controlled service polling day selection Thursday	ALL	0 <0-1>	SYS	0: Invalid 1: Valid	1
789	Maintenance	Remote-controlled service polling day selection Friday	ALL	0 <0-1>	SYS	0: Invalid 1: Valid	1
790	Maintenance	Remote-controlled service polling day selection Saturday	ALL	0 <0-1>	SYS	0: Invalid 1: Valid	1
794	Maintenance	Information of supplies setting of toner cartridge K	ALL	0 <0-1>	SYS	0: Invalid 1: Valid	1
795	Maintenance	Information of supplies setting of toner bag	ALL	0 <0-1>	SYS	0: Invalid 1: Valid	1
796	Maintenance	Remote-controlled service lengthened interval polling (End of month)	ALL	0 <0-1>	SYS	0: Invalid 1: Valid	1
797	Maintenance	Firmware download	ALL	0 <0-1>	SYS	0: Accepted 1: Prohibited	1
798	General	Notifying address of trialperiod end	PRT/SCN	3 <0-3>	SYS	Sets where the end of the trial period is to be notified. 0: OFF 1: User 2: Service center 3: User and service center	1
799	General	Forcible end of trial period	PRT/SCN	-	SYS	[CANCEL]: Cancel [EXECUTION]: Forcible end When the "Forcible end of trial period" is performed, "0" is set in the code (08-673) to end up the trial period forcibly.	1
826	Charger	Main charger bias correction (Toner saving mode)	PRT	128<0-255>	M	Corrects the value of the main charger bias adjustment (05-210).	1

Setting mode (08) <e-STUDIO352/353/452/453>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
840	Image control	Setting of toner density temperature control	ALL	0 <0-1>	M	0: Controlled 1: Not controlled	1
841	Transfer	Transfer timing correction	ALL	0 <0-7>	M	0: Standard 1: Timing 1 2: Timing 2 3: Timing 3 4: Timing 4 5: Timing 5 6: Timing 6 7: Timing 7	1
855	Fuser	Fuser roller temperature during printing (Center thermistor / Tab paper)	ALL	12 <0-14>	M	0: 140°C 1: 145°C 2: 150°C 3: 155°C 4: 160°C 5: 165°C 6: 170°C 7: 175°C 8: 180°C 9: 185°C 10: 190°C 11: 195°C 12: 200°C 13: 205°C 14: 210°C	1
856	Fuser	Pre-running time for first printing (Tab paper)	ALL	10 <0-15>	M	0: Invalid 1: 1 sec. 2: 2 sec. 3: 3 sec. 4: 4 sec. 5: 5 sec. 6: 6 sec. 7: 7 sec. 8: 8 sec. 9: 9 sec. 10: 10 sec. 11: 12 sec. 12: 14 sec. 13: 16 sec. 14: 18 sec. 15: 20 sec.	1
859	Developer	Developer bias DC correction (Toner saving mode)	PRT	128 <0-255>	M	Corrects the value of the developer bias adjustment (05-205).	1
860	Developer	Developer bias DC correction (Normal)	PRT	128 <0-255>	M	Corrects the value of the developer bias adjustment (05-205).	1
861	Developer	Developer bias DC correction (Text/Photo)	PPC	128 <0-255>	M	Corrects the value of the developer bias adjustment (05-205).	1
862	Developer	Developer bias DC correction (Text)	PPC	128 <0-255>	M	Corrects the value of the developer bias adjustment (05-205).	1
863	Developer	Developer bias DC correction (Photo)	PPC	128 <0-255>	M	Corrects the value of the developer bias adjustment (05-205).	1
864	Charger	Main charger bias correction (Normal)	PRT	128 <0-255>	M	Corrects the value of the main charger bias adjustment (05-210).	1
865	Charger	Main charger bias correction (Text/Photo)	PPC	128 <0-255>	M	Corrects the value of the main charger bias adjustment (05-210).	1
866	Charger	Main charger bias correction (Text)	PPC	128 <0-255>	M	Corrects the value of the main charger bias adjustment (05-210).	1
867	Charger	Main charger bias correction (Photo)	PPC	128 <0-255>	M	Corrects the value of the main charger bias adjustment (05-210).	1
868	Transfer	Transfer charger bias correction (H)	ALL	128 <0-255>	M	Corrects the transfer charger bias output value of the leading edge area of paper.	1

Setting mode (08) <e-STUDIO352/353/452/453>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
869	Transfer	Transfer charger bias correction (L)	ALL	84 <0-255>	M	Corrects the transfer charger bias output value of the trailing edge area of paper.	1
872	Laser	Laser power correction (Normal)	PRT	128 <0-255>	M	Corrects the value of the laser power adjustment (05-286).	1
873	Laser	Laser power correction (Text/Photo)	PPC	128 <0-255>	M	Corrects the value of the laser power adjustment (05-286).	1
875	Laser	Laser power correction (Toner saving mode)	PRT	128 <0-255>	M	Corrects the value of the laser power adjustment (05-286).	1
876	Laser	Laser power correction (Text)	PPC	128 <0-255>	M	Corrects the value of the laser power adjustment (05-286).	1
877	Laser	Laser power correction (Photo)	PPC	128 <0-255>	M	Corrects the value of the laser power adjustment (05-286).	1
900	Version	System firmware ROM version	ALL	-	-	JPN: T364SY0JXXX UC: T364SY0UXXX EUR: T364SY0EXXX Others: T364SY0XXXX	2
903	Version	Engine ROM version	ALL	-	-	364M-XXX	2
905	Version	Scanner ROM version	ALL	-	-	364S-XXX	2
907	Version	RADF ROM version	ALL	-	-	DF-XXXX	2
908	Version	Finisher main ROM version	ALL	-	-	SDL-XX FIN-XX	2
911	Version	Finisher hole punch ROM version	ALL	-	-	PUN-XX (This setting is displayed only when the MJ-6101E is installed.)	2
915	Version	FAX board ROM version	FAX	-	-	F562-XXX	2
920	Version	FROM basic section software version	ALL	-	-	VX.XX/X.XX	2
921	Version	FROM internal program	ALL	-	-	VXXX.XXX X	2
922	Version	UI data fixed section version	ALL	-	-	VXXX.XXX X	2
923	Version	UI data common section version	ALL	-	-	VXXX.XXX X	2
924	Version	Version of UI data language 1 in HDD	ALL	-	-	VXXX.XXX X	2
925	Version	Version of UI data language 2 in HDD	ALL	-	-	VXXX.XXX X	2
926	Version	Version of UI data language 3 in HDD	ALL	-	-	VXXX.XXX X	2
927	Version	Version of UI data language 4 in HDD	ALL	-	-	VXXX.XXX X	2
928	Version	Version of UI data language 5 in HDD	ALL	-	-	VXXX.XXX X	2
929	Version	Version of UI data language 6 in HDD	ALL	-	-	VXXX.XXX X	2
930	Version	Version of UI data in FROM displayed at power-ON	ALL	-	-	VXXX.XXX X	2



Setting mode (08) <e-STUDIO352/353/452/453>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
931	Version	Version of UI data language 7 in HDD	ALL	-	-	VXXX.XXX X	2
933	Version	Web data whole version	ALL	-	-	VXXX.XXX X	2
934	Version	Web UI data in HDD Version: Language 1	ALL	-	-	VXXX.XXX X	2
935	Version	Web UI data in HDD Version: Language 2	ALL	-	-	VXXX.XXX X	2
936	Version	Web UI data in HDD Version: Language 3	ALL	-	-	VXXX.XXX X	2
937	Version	Web UI data in HDD Version: Language 4	ALL	-	-	VXXX.XXX X	2
938	Version	Web UI data in HDD Version: Language 5	ALL	-	-	VXXX.XXX X	2
939	Version	Web UI data in HDD Version: Language 6	ALL	-	-	VXXX.XXX X	2
944	Version	HD version	ALL	-	-	JPN: T364HD0JXXX UC: T364HD0UXXX EUR: T364HD0EXXX Others: T364HD0XXXX	2
945	Network	Two-way setting of Raw-Port 9100	ALL	2 <1-2>	UTY	1: Valid 2: Invalid	12
947	General	Initialization after software version upgrade	ALL	-	SYS	Perform this code when the software in this equipment has been upgraded.	3
949	General	Automatic interruption page setting during black printing	ALL	0 <0-100>	SYS	Sets the number of pages to interrupt the printing automatically. 0-100: 0 to 100 pages	1
950	Electronic filing	Start-up method of Electronic Filing	ALL	0 <0-2>	SYS	Sets the start-up method of the Electronic Filing. 0: Standard 1: Forced start-up (Not recovered) 2: Forced start-up (Recovered)	1
953	User interface	Access code entry for Electronic Filing printing	ALL	0 <0-1>	SYS	0: Renewed automatically 1: Enter every time	1
954	User interface	Clearing timing for files and Electronic Filing Agent	ALL	1 <0-1>	SYS	0: Immediately after the completion of scanning 1: Cleared by Auto Clear	1
969	User interface	Error sound	ALL	1 <0-1>	SYS	0: OFF 1: ON	1
970	User interface	Sound setting when switching to Energy Saving Mode	ALL	JPN: 0 Other: 1 <0-1>	SYS	0: OFF 1: ON	1
972	User interface	Enables/disables the display that the toner is nearly empty	ALL	0 <0-1>	SYS	0: Disabled 1: Enabled	1

Setting mode (08) <e-STUDIO352/353/452/453>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
973	Network	PCL line feed code setting	PRT	0 <0-3>	SYS	Sets the PCL line feed code. 0: Automatic setting 1: CR=CR, LF=LF 2: CR=CR+LF, LF=LF 3: CR=CR, LF=CR+LF	1
975	General	Job handling when printing is short paid with coin controller	ALL	1 <0-1>	SYS	Sets whether pause or stop the printing job when it is short paid using a coin controller. 0: Pause the job 1: Stop the job	1
976	Electronic Filing	Equipment name and user name setting to a folder when saving files	ALL	0 <0-2>	SYS	Sets whether or not adding the equipment name and user name to the folder when saving files. 0: Not add 1: Add the equipment name 2: Add the user name	1
977	Network	Switching of extended ASCII code in catFs file-system	ALL	0 <0-1>	SYS	0: ISO8859-1 1: ISO8859-2	1
978	Network	Raw printing job (Paper feeding drawer)	PRT	0 <0-5>	SYS	0: AUTO 1: Upper drawer 2: Lower drawer 3: PFP upper drawer 4: PFP lower drawer 5: LCF	1

Setting mode (08) <e-STUDIO352/353/452/453>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
979	Network	Raw printing job (PCL symbol set)	PRT	0 <0-39>	SYS	0: Roman-8 1: ISO 8859/1 Latin 1 2: ISO 8859/2 Latin 2 3: ISO 8859/9 Latin 5 4: PC-8, Code Page 437 5: PC-8 D/N, Danish/ Norwegian 6: PC-850, Multilingual 7: PC-852, Latin2 8: PC-8 Turkish 9: Windows 3.1 Latin 1 10: Windows 3.1 Latin 2 11: Windows 3.1 Latin 5 12: DeskTop 13: PS Text 14: Ventura International 15: Ventura US 16: Microsoft Publishing 17: Math-8 18: PS Math 19: Ventura Math 20: Pi Font 21: Legal 22: ISO 4: United Kingdom 23: ISO 6: ASCII 24: ISO 11 25: ISO 15: Italian 26: ISO 17 27: ISO 21: German 28: ISO 60: Danish/Norwegian 29: ISO 69: French 30: Windows 3.0 Latin 1 31: MC Text 32: PC Cyrillic 33: ITC Zapf Dingbats 34: ISO 8859/10 Latin 6 35: PC-775 36: PC-1004 37: Symbol 38: Windows Baltic 39: Wingdings	1
983	User interface	JOB STATUS initial screen setting	ALL	0 <0-1>	SYS	0: Print 1: Private	1
985	Electronic Filing	Print mode setting of mixed input source of Electronic Filing	ALL	0 <0-1>	SYS	0: Image quality priority mode 1: Function priority mode	1
986	General	Copy function setting	PPC	0 <0-1>	SYS	Sets the copy function to be invalid. 0: Valid 1: Invalid	1
988	Paper feeding	Setting of paper size switching to 13" LG	ALL	0 <0-2>	SYS	0: Not switched 1: LG→13"LG 2: FOLIO→13"LG	1

Setting mode (08) <e-STUDIO352/353/452/453>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
995	Version	Equipment number (serial number) display	ALL	0 <10 digits>	SYS	This code can be also keyed in from the adjustment mode (05- 976). 10 digits	11
999	Maintenance	FSMS total counter	ALL	0 <8 digits>	SYS	Refer to values of total counter.	1
1002	Network	Selection of NIC board status information	ALL	1 <1-2>	NIC	1: Not printed out when the equipment is restarted 2: Printed out when the equipment is restarted	12
1003	Network	Communication speed and settings of Ethernet	ALL	1 <1-5>	NIC	1: Auto 2: 10MBPS Half Duplex 3: 10MBPS Full Duplex 4: 100MBPS Half Duplex 5: 100MBPS Full Duplex	12
1005	Network	Availability of IP	ALL	1 <1-2>	NIC	1: Available 2: Not available	12
1006	Network	Address Mode	ALL	2 <1-3>	NIC	1: Fixed IP address 2: Dynamic IP address 3: Dynamic IP address without AutoIP	12
1007	Network	Domain name	ALL	-	NIC	Maximum 96 letters	12
1008	Network	IP address	ALL	-	NIC	000.000.000.000- 255.255.255.255 (Default value 000.000.000.000)	12
1009	Network	Subnet mask	ALL	-	NIC	000.000.000.000- 255.255.255.255 (Default value 000.000.000.000)	12
1010	Network	Gateway	ALL	-	NIC	000.000.000.000- 255.255.255.255 (Default value 000.000.000.000)	12
1011	Network	Availability of IPX	ALL	1 <1-2>	NIC	1: Available 2: Not available	12
1012	Network	Network frame type	ALL	1 <1-5>	NIC	1: Automatic 2: IEEE802.3 3: Ethernet II 4: IEEE802.3 SNAP 5: IEEE802.2	12
1013	Network	Availability of NCP Burst	ALL	1 <1-2>	NIC	1: Available 2: Not available	12
1014	Network	Availability of AppleTalk	ALL	1 <1-2>	NIC	1: Available 2: Not available	12
1015	Network	Zone setting of AppleTalk	ALL	*	NIC	Maximum 32 letters *: Wildcard character	12
1016	Network	Availability of LDAP	ALL	1 <1-2>	NIC	1: Available 2: Not available	12

Setting mode (08) <e-STUDIO352/353/452/453>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
1017	Network	Availability of DNS	ALL	1 <1-2>	NIC	1: Available 2: Not available	12
1018	Network	IP address to DNS server (Primary)	ALL	-	NIC	000.000.000.000- 255.255.255.255 (Default value 000.000.000.000)	12
1019	Network	IP address to DNS server (Secondary)	ALL	-	NIC	000.000.000.000- 255.255.255.255 (Default value 000.000.000.000)	12
1020	Network	DDNS Desired level	ALL	1 <1-5>	NIC	1: Invalid 2: Via DHCP 3: Insecure DDNS 4: Secure DDNS 5: Multi-secure DDNS	12
1023	Network	NetBios name	ALL	MFP serial	UTY	Maximum 15 letters The network-related serial number of the equipment appears at "serial"	12
1024	Network	Name of WINS server or IP address (Primary)	ALL	-	UTY	000.000.000.000- 255.255.255.255 (Default value 000.000.000.000)	12
1025	Network	Name of WINS server or IP address (Secondary)	ALL	-	UTY	000.000.000.000- 255.255.255.255 (Default value 000.000.000.000)	12
1026	Network	Availability of Bindery	ALL	1 <1-2>	NIC	1: Available 2: Not available	12
1027	Network	Availability of NDS	ALL	1 <1-2>	NIC	1: Available 2: Not available	12
1028	Network	Directory service context	ALL	-	NIC	Maximum 127 letters	12
1029	Network	Directory service tree	ALL	-	NIC	Maximum 47 letters	12
1030	Network	Availability of HTTP server	ALL	1 <1-2>	NIC	1: Available 2: Not available	12
1031	Network	Port number to NIC HTTP server	ALL	80 <1- 65535>	NIC		12
1032	Network	Port number to system HTTP server	ALL	8080 <1- 65535>	NIC		12
1037	Network	Availability of SMTP client	ALL	1 <1-2>	NIC	1: Available 2: Not available	12
1038	Network	FQDN or IP address to SMTP server	ALL	-	NIC	Maximum 128 Bytes	12
1039	Network	TCP port number of SMTP client	ALL	25 <1- 65535>	NIC		12
1040	Network	Availability of SMTP server	ALL	1 <1-2>	UTY	1: Available 2: Not available	12
1041	Network	TCP port number of SMTP server	ALL	25 <1- 65535>	UTY		12
1042	Network	E-mail box name to SMTP server	ALL	-	UTY	Maximum 192 letters	12

Setting mode (08) <e-STUDIO352/353/452/453>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
1043	Network	Availability of Offramp	ALL	2 <1-2>	UTY	1: Available 2: Not available	12
1044	Network	Offramp security	ALL	1 <1-2>	UTY	1: Available 2: Not available	12
1045	Network	Printing at Offramp	ALL	1 <1-2>	UTY	1: Available 2: Not available	12
1046	Network	Availability of POP3 clients	ALL	1 <1-2>	NIC	1: Available 2: Not available	12
1047	Network	FQDN or IP address to POP3 server	ALL	-	NIC	Maximum 128 Bytes	12
1048	Network	Types of POP3 server	ALL	1 <1-3>	NIC	1: Automatic 2: POP3 3: APOP	12
1049	Network	Login name to POP3 server	ALL	-	NIC	Maximum 96 letters	12
1050	Network	Login password to POP3	ALL	-	NIC	Maximum 96 letters	12
1051	Network	E-mail reception interval (Unit: Minute)	ALL	5 <0-4096>	NIC		12
1052	Network	TCP port number of POP3 client	ALL	110 <1-65535>	NIC		12
1055	Network	TCP port number of FTP client	ALL	21 <1-65535>	UTY		12
1057	Network	Login name to FTP server	ALL		SYS	Maximum 31 letters	11
1058	Network	Login password to FTP server	ALL	-	SYS	Maximum 31 letters	11
1059	Network	Availability of FTP server	ALL	1 <1-2>	NIC	1: Available 2: Not available	12
1060	Network	TCP port number of FTP server	ALL	21 <1-65535>	UTY		12
1061	Network	Login name to FTP client	ALL	-	SYS	Maximum 31 letters	11
1062	Network	Login password to FTP client	ALL	-	SYS	Maximum 31 letters	11
1063	Network	MIB function	ALL	1 <1-2>	NIC	1: Valid 2: Invalid	12
1065	Network	Setting of read Community	ALL	public	NIC	Maximum 31 letters	12
1066	Network	Setting of read/Write Community	ALL	private	NIC	Maximum 31 letters	12
1067	Network	Authentication TRAP function	ALL	1 <1-2>	NIC	1: Valid 2: Invalid	12
1068	Network	ALERTS TRAP function	ALL	1 <1-2>	NIC	1: Valid 2: Invalid	12
1069	Network	TRAP destination IP address	ALL	-	UTY	000.000.000.000-255.255.255.255 (Default value 000.000.000.000)	12
1070	Network	Community setting of TRAP (via IP)	ALL	public	NIC	Maximum 31 letters	12
1073	Network	Availability of Raw/TCP	ALL	1 <1-2>	NIC	1: Valid 2: Invalid	12
1074	Network	TCP port number of Raw	ALL	9100 <1-65535>	NIC		12

Setting mode (08) <e-STUDIO352/353/452/453>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
1075	Network	Availability of LPD client	ALL	1 <1-2>	NIC	1: Valid 2: Invalid	12
1076	Network	TCP port number of LPD	ALL	515 <1-65535>	NIC		12
1077	Network	LPD queue name	ALL	-	NIC	Maximum 31 letters	12
1078	Network	Availability of IPP	ALL	1 <1-2>	NIC	1: Valid 2: Invalid	12
1079	Network	Availability of IPP port number "80"	ALL	1 <1-2>	NIC	1: Valid 2: Invalid	12
1080	Network	TCP port number of IPP	ALL	631 <1-65535>	NIC		12
1081	Network	IPP printer name	ALL	MFP_serial	NIC	Maximum 127 letters The network-related serial number of the equipment appears at "serial"	12
1082	Network	IPP printer location	ALL	-	NIC	Maximum 127 letters	12
1083	Network	IPP printer information	ALL	-	NIC	Maximum 127 letters	12
1084	Network	IPP printer information (more)	ALL	-	NIC	Maximum 127 letters	12
1085	Network	Installer of IPP printer driver	ALL	-	NIC	Maximum 127 letters	12
1086	Network	IPP printer "Make and Model"	ALL	-	NIC	Maximum 127 letters	12
1087	Network	IPP printer information (more) MFG	ALL	-	NIC	Maximum 127 letters	12
1088	Network	IPP message from operator	ALL	-	NIC	Maximum 127 letters	12
1089	Network	Availability of FTP print	ALL	1 <1-2>	NIC	1: Available 2: Not available	12
1090	Network	Printer user name of FTP	ALL	print	NIC	Maximum 31 letters	12
1091	Network	Printer user password of FTP	ALL	-	NIC	Maximum 31 letters	12
1092	Network	TCP port number to FTP print server	ALL	21 <1-65535>	NIC		12
1093	Network	Login name to Novell print server	ALL	MFP_serial	NIC	Maximum 47 letters The network-related serial number of the equipment appears at "serial"	12
1094	Network	Login password to Novell print server	ALL	-	NIC	Maximum 31 letters	12
1095	Network	Name of SearchRoot server	ALL	-	NIC	Maximum 31 letters	12
1096	Network	Scan rate setting of print queue	ALL	5 <1-255>	NIC	Unit: Second	12
1097	Network	Page number limitation for printing text of received Email	ALL	5 <1-99>	UTY		12
1098	Network	MDN return mail setting when receiving E-mail	ALL	2 <1-2>	UTY	1: Valid 2: Invalid	12

Setting mode (08) <e-STUDIO352/353/452/453>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
1099	Network	Trap destination of IPX	ALL	-	UTY	Maximum 24 letters (Valid from 0 to 9 and from A to F)	12
1100	Network	Method of SMTP server authentication	ALL	1 <1-7,10>	NIC	1: Disable 2: Plain 3: Login 4: Cram-MD5 5: Digest MD5 6: Kerberos 7: NTLM 10: Auto	12
1101	Network	Login name for SMTP server authentication	ALL	-	NIC	Maximum 64 letters	12
1102	Network	Login password for SMTP server authentication	ALL	-	NIC	Maximum 64 letters	12
1103	Network	Rendezvous setting	ALL	1 <1-2>	NIC	1: Valid 2: Invalid	12
1104	Network	Link local host name	ALL	MFP_ serial	NIC	Maximum 127 letters The network-related serial number of the equipment appears at "serial"	12
1105	Network	Service name setting	ALL	Refer to contents	NIC	Maximum 63 letters The network-related serial number of the equipment appears at "serial" e-STUDIO352: TOSHIBA e-STUDIO352_serial e-STUDIO353: TOSHIBA e-STUDIO353_serial e-STUDIO452: TOSHIBA e-STUDIO452_serial e-STUDIO453: TOSHIBA e-STUDIO453_serial	12
1111	Network	POP Before SMTP setting	ALL	2 <1-2>	NIC	1: Valid 2: Invalid	12
1112	Network	Host name	ALL	MFP_ serial	NIC	Maximum 63 letters The network-related serial number of the equipment appears at "serial"	12
1113	Network	Windows domain No.1 of user authentication	ALL	-	UTY	Maximum 128 letters	12
1114	Network	Sending mail text of Inter- netFAX	ALL	1 <0-1>	SYS	0: Invalid 1: Valid	1
1117	Network	SMB time-out period	ALL	300 <1-9999>	SYS	Unit: Second	1
1118	General	Clearing of TAT partition	ALL	-	SYS		3
1119	Network	Initialization of NIC infor- mation	ALL	-	-	Initializes only the infor- mation of the Network setting items.	3



Setting mode (08) <e-STUDIO352/353/452/453>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
1121	Network	PDC (Primary Domain Controller) name	ALL	-	UTY	Maximum 128 letters	12
1122	Network	BDC (Backup Domain Controller) name	ALL	-	UTY	Maximum 128 letters	12
1123	Network	NT domain ON/OFF setting	ALL	4 <3-4>	UTY	3: ON (Domain selected) 4: OFF (Work group selected)	12
1124	Network	Workgroup name	ALL	work-group	UTY	Maximum 15 letters	12
1125	General	Data writing of address book data import (overwriting method)	ALL	0 <0-1>	SYS	0: Invalid 1: Valid	1
1126	Counter	Validity of interrupt copying when external counters are installed	ALL	0 <0-1>	SYS	0: Invalid 1: Valid	1
1128	Network	NetwareUserAuthTree Name1	ALL	-	UTY	Maximum 47 letters	12
1129	Network	NetwareUserAuthContext Name1	ALL	-	UTY	Maximum 127 letters	12
1130	User interface	Job Build Function	ALL	1 <0-1>	SYS	Sets the Job Build Function. 0: Invalid 1: Valid	1
1131	User interface	Maximum number of time job build performed	ALL	2000 <5-2000>	SYS	Sets the maximum number of time a job build has been performed. 5-2000: 5 to 2000 times	1
1132	General	Default screen selection of the User Function menu	ALL	1 <0-1>	SYS	Selects the default screen when entering the User Function menu by pressing the [USER FUNCTIONS] button. 0: ADDRESS 1: COUNTER	1
1134	Network	NetwareUserAuthTree Name2	ALL	-	UTY	Maximum 47 letters	12
1135	Paper feeding	Default setting of drawers (Printer/BOX)	PRT	1 <1-5>	SYS	1: LCF 2: Upper drawer 3: Lower drawer 4: PFP upper drawer 5: PFP lower drawer	1
1138	Network	LDAP search method setting	ALL	0 <0-3>	SYS	Sets the search method when performing a LDAP search. 0: Partial match 1: Prefix match 2: Suffix match 3: Full match	1
1139	Network	LDAP authentication setting	ALL	0 <0-1>	SYS	0: Not authenticated 1: Authenticated	1

Setting mode (08) <e-STUDIO352/353/452/453>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
1140	User interface	Restriction of the template function with the administrator privilege	ALL	0 <0-1>	SYS	Selects the restriction of the template function usage setting. 0: No restriction 1: Only available with the administrator privilege.	1
1141	Network	Display of MAC address	ALL	-	SYS	(**.*.*.*.*.*.*) The address is displayed as above (6-byte data is divided by a colon at every 2 bytes).	2
1143	Network	NetwareUserAuthContext Name2	ALL	-	UTY	Maximum 127 letters	12
1144	Network	NetwareUserAuthTree Name3	ALL	-	UTY	Maximum 47 letters	12
1145	Maintenance (Remote)	Counter notification Remote FAX setting	ALL	-	SYS	Maximum 32 digits Enter a hyphen with the [MONITOR/PAUSE] button.	11
1148	Network	NetwareUserAuthContext Name3	ALL	-	UTY	Maximum 127 letters	12
1149	General	Enhanced bold for PCL6	ALL	0 <0-1>	SYS	0:OFF 1:ON	1
1372	Image processing	Heater and energizing time accumulating counter Display/0 clearing	ALL	0 <8 digits>	M	Counts up the heater control time accumulated (when power of the equipment is ON) but does not count at the Sleep Mode. When the counter value of the fuser roller is cleared, this counter value is also cleared in sync at the PM support mode.	1
1376	Image processing	Toner cartridge drive counter Number of output pages	ALL	0 <8 digits>	M	Counts the rotation number of the toner cartridge.	1
1385	Image processing	Number of output pages (Thick paper 1)	ALL	0 <8 digits>	M	Counts up when the registration sensor is ON. When the counter value of the fuser roller is cleared, this counter value is also cleared in sync at the PM support mode.	1
1386	Image processing	Number of output pages (Thick paper 2)	ALL	0 <8 digits>	M	Counts up when the registration sensor is ON. When the counter value of the fuser roller is cleared, this counter value is also cleared in sync at PM support mode.	1

Setting mode (08) <e-STUDIO352/353/452/453>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Pro- cedure
1387	Image processing	Number of output pages (Thick paper 3)	ALL	0 <8 digits>	M	Counts up when the registration sensor is ON. When the counter value of the fuser roller is cleared, this counter value is also cleared in sync at PM support mode.	1
1388	Image processing	Number of output pages (OHP film)	ALL	0 <8 digits>	M	Counts up when the registration sensor is ON. When the counter value of the fuser roller is cleared, this counter value is also cleared in sync at PM support mode.	1
1390	Paper feeding	Feeding retry counter (upper drawer)	ALL	0 <8 digits>	M	Counts the number of times of the feeding retry from the upper drawer.	1
1391	Paper feeding	Feeding retry counter (lower drawer)	ALL	0 <8 digits>	M	Counts the number of times of the feeding retry from the lower drawer.	1
1392	Paper feeding	Feeding retry counter (PFP upper drawer)	ALL	0 <8 digits>	M	Counts the number of times of the feeding retry from the PFP upper drawer.	1
1393	Paper feeding	Feeding retry counter (PFP lower drawer)	ALL	0 <8 digits>	M	Counts the number of times of the feeding retry from the PFP lower drawer.	1
1394	Paper feeding	Feeding retry counter (bypass feed)	ALL	0 <8 digits>	M	Counts the number of times of the feeding retry from the bypass tray.	1
1395	Paper feeding	Feeding retry counter (LCF)	ALL	0 <8 digits>	M	Counts the number of times of the feeding retry from the LCF.	1
1396	Paper feeding	Feeding retry counter upper limit value (upper drawer)	ALL	0 <8 digits>	M	When the number of feeding retry (08-1390 to 08-1395) exceeds the setting value, the feeding retry will not be performed subsequently. In case "0" is set as a setting value, however, the feeding retry continues regardless of the counter setting value.	1
1397	Paper feeding	Feeding retry counter upper limit value (lower drawer)	ALL	0 <8 digits>	M		1
1398	Paper feeding	Feeding retry counter upper limit value (PFP upper drawer)	ALL	0 <8 digits>	M		1
1399	Paper feeding	Feeding retry counter upper limit value (PFP lower drawer)	ALL	0 <8 digits>	M		1
1400	Paper feeding	Feeding retry counter upper limit value (Bypass feed)	ALL	0 <8 digits>	M		1
1401	Paper feeding	Feeding retry counter upper limit value (LCF)	ALL	0 <8 digits>	M		1

Setting mode (08) <e-STUDIO352/353/452/453>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
1410	Counter	Counter for period of toner cartridge rotation time	ALL	0 <8 digits>	M	Counts up the period of rotation time of the toner cartridge.	1
1412	Counter	Counter for tab paper	ALL	0 <8 digits>	M	Counts up when the registration sensor is ON. When the counter value of the fuser roller is reset, this counter is reset in sync at the PM support mode.	1
1422	Data overwrite kit	HDD data overwriting type setting	ALL	0 <0-2>	SYS	Select the type of the overwriting level; LOW, MEDIUM, or HIGH for deleting HDD data. (This setting is enabled only when the GP-1060 is installed.) 0: LOW 1: MEDIUM 2: HIGH	1
1424	Data overwrite kit	HDD data clearing type setting (forcible clearing)	ALL	0 <0-2>	SYS	Select the type of the overwriting level; LOW, MEDIUM, or HIGH for deleting HDD data. (This setting is enabled only when the GP-1060 is installed.) 0: LOW 1: MEDIUM 2: HIGH	1
1426	Data overwrite kit	Forcible HDD data clearing	ALL	-	-	HDD data is cleared in the procedure set in 08-1424. * This setting is enabled only when the GP-1060 is installed.	3
1427	Data overwrite kit	Forcible NVRAM data all clearing	ALL	-	-	When this code is performed, the equipment cannot be started up. * This setting is enabled only when the GP-1060 is installed.	3
1428	Data overwrite kit	Forcible SRAM backup data all clearing	ALL	-	-	When this code is performed, the equipment cannot be started up. * This setting is enabled only when the GP-1060 is installed.	3
1429	User interface	Margin width (Top/Bottom, Left/Right)	ALL	Front: 7/ Back: 7 <2-100/- 100-100>	SYS	This setting is not reflected in "Right", even if the value less than 2 is set for "Back".	10
1430	User interface	Margin width (Bookbinding margin)	ALL	14 <2-30>	SYS		1

Setting mode (08) <e-STUDIO352/353/452/453>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
1431	Network	ACC (AT_CASSETTE_CHANGE) for Printer/Box printing	ALL	1 <0-2>	SYS	0: ACC prohibited 1: Only in the same paper direction 2: In both same direction and different directions	1
1432	Network	Mode only for Private Print	ALL	0 <0-1>	SYS	0: Normal mode 1: Mode for Private Print	1
1435	Network	"Disable private and proof print save" function	ALL	0 <0-1>	SYS	0: Function OFF (no restriction on data saving or other operations) 1: Function ON (Data saving or other operations are restricted)	1
1436	Network	"Disable fax save" function	ALL	0 <0-1>	SYS	0: Function OFF (no restriction on data saving or other operations) 1: Function ON (Data saving or other operations are restricted)	1
1437	Paper feeding	Hole punch on tab paper	ALL	0 <0-1>	SYS	0: No hole punch 1: Hole punch	1
1438	Paper feeding	Automatic feed setting of tab paper and insertion sheet (Remote)	ALL	1 <0-1>	SYS	0: Disabled 1: Enabled	1
1439	Paper feeding	Automatic feed setting of tab paper and insertion sheet (Local)	ALL	1 <0-1>	SYS	0: Disabled 1: Enabled	1
1440	Network	IP Conflict Detect	ALL	1 <1-2>	-	OFF/ON 1: Valid 2: Invalid	12
1441	Network	SNTP Enable	ALL	2 <1-2>	-	OFF/ON 1: Valid 2: Invalid	12
1442	Network	SNTP Polling rate	ALL	24 <1-168>	-	Data obtaining interval (Unit: Hour)	12
1444	Network	Primary SNTP Address	ALL	-	-	SNTP server IP Address (Primary)	12
1445	Network	Secondary SNTP Address	ALL	-	-	SNTP server IP Address (Secondary)	12
1446	Network	Port number to SNTP	ALL	123 <1- 65535>	-		12
1447	Network	IPP administrator name	ALL	-	-	This should be an account which can control all IPP jobs.	12
1448	Network	IPP administrator password	ALL	-	-	This should be the password of an account which can control all IPP jobs.	12

Setting mode (08) <e-STUDIO352/353/452/453>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
1449	Network	IPP authentication method	ALL	1 <1-4>	-	1: Disabled 2: Basic 3: Digest 4: Basic Digest	12
1450	Network	User name for IPP authentication	ALL	-	-	This should be the account at the time IPP authentication was performed.	12
1451	Network	Password for IPP authentication	ALL	-	-	This should be the password of the account at the time IPP authentication was performed.	12
1464	Network	Samba server ON/OFF setting	ALL	1 <1-4>	NIC	1: Samba enabled 2: Samba disabled 3: Print Share disabled 4: File Share disabled	12
1470	General	Device authentication function setting	ALL	0 <0-1>	SYS	0: OFF 1: ON	1
1471	General	User authentication method	ALL	0 <0-5>	SYS	0: Local 1: NTLM (NT Domain) 2: LDAP 3: Kerberos (Active Directory)	1
1472	General	User data management automatic registration function setting	ALL	0 <0-1>	SYS	0: Disabled 1: Enabled	1
1473	General	User data management limitation setting	ALL	0 <0-1>	SYS	0: Disabled 1: Enabled	1
1474	General	User data management limitation Setting by number of print-outs	ALL	0 <7 digits>	SYS	0-9,999,999: 0-9,999,999 sheets	1
1476	Network	Restriction on Address book operation by administrator	ALL	0 <0-1>	SYS	Some restrictions can be given on the administrator for operating the Address book. 0: No restriction 1: Can be operated only under the administrator's authorization	1
1477	Network	Restriction on "To" ("cc") address	ALL	0 <0-3>	SYS	0: No restriction 1: Can be set from both of the Address book and LDAP server 2: Can be set only from the Address book 3: Can be set only from the LDAP server	1
1478	User interface	Display of paper size setting by installation operation of drawers	ALL	JPN: 0 UC: 1 EUR: 0 <0-1>	SYS	0: Not displayed 1: Displayed	1

Setting mode (08) <e-STUDIO352/353/452/453>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
1479	User interface	Default setting of sharpness	ALL	5 <1-9>	SYS	1: -4 2: -3 3: -2 4: -1 5: 0 6: +1 7: +2 8: +3 9: +4	1
1481	General	User data management clearing	ALL	-	-	All the user data in the database and backup files can be deleted.	3
1482	General	User data department management	ALL	0 <0-1>	SYS	0: Invalid 1: Valid * When this code is set to "1" (Valid), the department management setting (08-629) should be "1" (Valid).	1
1483	General	User data recovery	ALL	-	-	The data in the database is overwritten with the data in the backup file.	3
1484	Network	Authentication method of "Scan to Email"	ALL	0 <0-2>	SYS	0: Disabled 1: SMTP authentication 2: LDAP authentication	1
1485	Network	Setting whether use of Internet FAX is permitted or not when it is given an authentication	ALL	0 <0-1>	SYS	0: Not permitted 1: Permitted	1
1487	Network	"From" address assignment method when it is given an authentication	ALL	0 <0-2>	SYS	0: "User name" + @ + "Domain name" 1: LDAP searching 2: Use the address registered at "From" field of E-mail setting	1
1489	Network	Setting for "From" address edit at "Scan to Email"	ALL	0 <0-1>	SYS	0: Not permitted 1: Permitted	1
1491	Network	E-mail domain name	ALL	-	SYS	96 + 2 (delimiter) character ASCII sequence only	11
1492	Paper feeding	Detection method of 13" LG for single-size document	ALL	0 <0-1>	SYS	0: Disabled 1: Enabled	1
1493	Network	Role Base Access Function	ALL	0 <0-1>	SYS	0: Function off (No restriction on data saving and other operations) 1: Function on (Data saving and other operations have some restrictions)	1
1494	General	Limitation check method	ALL	0 <0-1>	SYS	0: Checked at every page printed 1: Checked at every job printed	2

Setting mode (08) <e-STUDIO352/353/452/453>								
Code	Classification	Items		Function	Default <Acceptable value>	RAM	Contents	Procedure
1495	Maintenance	Service call checking period setting		ALL	6 <0-12>	-	0: No checking period specified (= Calls service technician immediately) 0: 10 minutes 1: 30 minutes 3: 1 hour 4: 6 hours 5: 12 hours 6: 24 hours 7: 48 hours 8: 7 days 9: 1 month 10: 1 year 11: 5 years 12: Not limited (= Calls service technician if such error has occurred in the past even once or more)	12
1496	General	Operation setting for User authentication/registration		ALL	1 <0-1>	SYS	0 : Disables operation setting for User authentication/registration 1 : Enables operation setting for User authentication/registration	1
1497	Network	e-Filing Access Mode (for Client)		ALL	0 <0-2>	SYS	0: Mode 1 1: Mode 2 2: Mode 3	1
1498	FAX	Inbound FAX function (Forwarding by TSI)			1 <0-1>	SYS	0: OFF (Function disabled) 1: ON (Function enabled)	1
1530-0	Counter	Number of output pages	1-UP / Duplex printing	PPC	0 <8 digits>	SYS	Counts the number of output pages.	4
1530-1			2-UP / Duplex printing	PPC	0 <8 digits>	SYS	Counts the number of output pages using [2IN1] or [MAGAZINE SORT].	4
1530-2			2-UP / Simplex printing	PPC	0 <8 digits>	SYS	Counts the number of sheets using [2IN1] or [MAGAZINE SORT].	4
1530-3			4-UP / Duplex printing	PPC	0 <8 digits>	SYS	Counts the number of output pages using [4IN1].	4
1530-4			4-UP / Simplex printing	PPC	0 <8 digits>	SYS	Counts the number of sheets using [4IN1].	4
1530-7			1-UP / Simplex printing	PPC	0 <8 digits>	SYS	Counts the number of output pages.	4



Setting mode (08) <e-STUDIO352/353/452/453>								
Code	Classification	Items		Function	Default <Acceptable value>	RAM	Contents	Procedure
1533-0	Counter	Number of output pages of the printer or BOX	1-UP / Duplex printing	PRT	0 <8 digits>	SYS	Counts the number of output pages.	4
1533-1			2-UP / Duplex printing	PRT	0 <8 digits>	SYS	Counts the number of output pages using [2IN1] or [MAGAZINE SORT]. * When printing is performed using a Windows driver, the 1-UP image will be output.	4
1533-2			2-UP / Simplex printing	PRT	0 <8 digits>	SYS	Counts the number of sheets using [2IN1] or [MAGAZINE SORT].	4
1533-3			4-UP / Duplex printing	PRT	0 <8 digits>	SYS	Counts the number of output pages using [4IN1].	4
1533-4			4-UP / Simplex printing	PRT	0 <8 digits>	SYS	Counts the number of sheets using [4IN1].	4
1533-5			N-UP / Duplex printing	PRT	0 <8 digits>	SYS	Counts the number of output pages using [N IN1].	4
1533-6			N-UP / Simplex printing	PRT	0 <8 digits>	SYS	Counts the number of sheets using [N IN1].	4
1533-7			1-UP / Simplex printing	PRT	0 <8 digits>	SYS	Counts the number of output pages .	4
1535-0	Counter	Number of output pages of the FAX printing (1-UP / Duplex print- ing)	1-UP / Duplex printing	FAX	0 <8 digits>	SYS	Counts the number of sheets in the default settings.	4
1535-7			1-UP / Simplex printing	FAX	0 <8 digits>	SYS		4
1660	Wireless LAN	Wireless LAN driver Radio ON/OFF setting		ALL	1 <1-2>	-	1: OFF 2: ON	12
1661	Wireless LAN	Wireless LAN driver SSID		ALL	-	-	Maximum 32 letters	12
1662	Wireless LAN	Wireless LAN driver Network type		ALL	1 <1-2>	-	1: Infrarstructure 2: Ad-Hoc	12
1663	Wireless LAN	Wireless LAN driver Security		ALL	4 <1-4>	-	1: 802.1x 2: WPA-PSK 3: WEP 4: NONE	12
1664	Wireless LAN	Wireless LAN driver Encryption system		ALL	1 <1-3>	-	1: TKIP 2: AES 3: Dynamic WEP	12
1665	Wireless LAN	Wireless LAN driver Transmission output power		ALL	1 <1-5>	-	1: 100% 2: 50% 3: 25% 4: 12.5% 5: min	12
1666	Wireless LAN	Wireless LAN driver Transmission rate		ALL	1 <1-2>	-	1: Auto 2: Manual	12

Setting mode (08) <e-STUDIO352/353/452/453>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
1667	Wireless LAN	Wireless LAN driver Transmission rate value	ALL	1 <1-12>	-	1: 1      2: 2 3: 5.5    4: 11 5: 6      6: 9 7: 12     8: 18 9: 24 10: 36 11: 48 12: 54	12
1668	Wireless LAN	Wireless LAN driver Operation channel	ALL	1 <1-2>	-	1: Auto    2: Manual	12
1669	Wireless LAN	Wireless LAN driver Operation channel value	ALL	1 <1-11>	-		12
1670	Wireless LAN	Wireless LAN driver WEP bit number	ALL	1 <1-3>	-	1: 64      2: 128 3: 152	12
1671	Wireless LAN	Wireless LAN driver WEP key entry system	ALL	2 <1-2>	-	1: Hex     2: ASCII	12
1672	Wireless LAN	Wireless LAN driver WEP key value	ALL	-	-	Maximum 32 letters	12
1673	Wireless LAN	Wireless LAN driver WPA-PSK passphrase	ALL	-	-	Maximum 64 letters	12
1674	Wireless LAN	Wireless LAN driver Sleep mode setting	ALL	1 <1-3>	-	1: Off      2: Max 3: Normal	12
1675	Wireless LAN	Wireless LAN driver Slot-time limitation	ALL	1 <1-2>	-	1: Long    2: Short	12
1676	Wireless LAN	Wireless LAN driver Number of times of software retry	ALL	5 <0-1000>	-		12
1677	Wireless LAN	Wireless LAN driver Preamble	ALL	1 <1-2>	-	1: Long    2: Longshort	12
1678	Wireless LAN	Wireless LAN driver Operation mode	ALL	1 <1-3>	-	1: All      2: 11b 3: 11g	12
1679	Wireless LAN	Wireless LAN supplicant Wireless LAN setting	ALL	1 <1-3>	-	This setting is whether the wireless LAN connection is enabled or disabled. 1: Unset   2: Enabled 3: Disabled	12
1681	Wireless LAN	Wireless LAN supplicant Path name for client certificate	ALL	-	-	This should be the path name in full where the client certificate is located. (Maximum 255 letters)	12
1682	Wireless LAN	Wireless LAN supplicant Path name for secret key of client certificate	ALL	-	-	This should be the path name in full where the client certificate is located. (Maximum 255 letters)	12
1684	Wireless LAN	Wireless LAN supplicant Path name for CA self-certificate	ALL	-	-	This should be the path name in full where the CA self-certificate is located. (Maximum 255 letters)	12
1685	Wireless LAN	Wireless LAN supplicant EAP user name	ALL	-	-	This should be the user name when the EAP-TLS is used.	12

Setting mode (08) <e-STUDIO352/353/452/453>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
1686	Wireless LAN	Wireless LAN supplicant EAP user name	ALL	-	-	This should be the user name when the PEAP is used.	12
1689	Wireless LAN	Wireless LAN supplicant Authentication interval	ALL	30 <30-65535>	-	This should be the time-out interval between EAP responses. 30: 30 seconds	12
1690	Wireless LAN	Wireless LAN supplicant Holding interval	ALL	60 <60-65535>	M	The EAP authentication will start after having been waited in this period when an EAP failure was received. 60: 60 seconds	12
1691	Wireless LAN	Wireless LAN supplicant EAPOL-Start Number of times of packet retry	ALL	3 <1-65535>	M	When an EAPOL-Start packet has been sent and the request ID cannot be received, this EAPOL-Start packet will be re-sent for the number of times set in this code. 3: 3 times	12
1692	Wireless LAN	Wireless LAN supplicant Session resume	ALL	2 <1-2>	-	This setting is whether the pre-master key should be updated or not upon a TLS renegotiation. 1: Session is resumed 2: Session is not resumed	12
1693	Wireless LAN	Wireless LAN supplicant MAC Frame size	ALL	1398 <1-1398>	-	This is a MAC frame size used in the wireless LAN connection. The data is fragmented into this size. 1398: 1398 bytes	12
1696	Wireless LAN	Wireless LAN supplicant Device file setting for obtaining random number	ALL	/dev/ urandom	-	This should be the device file name which can obtain a seed to initialize the WEP PRNG for xsupplicant. (Maximum 255 letters)	12
1697	Wireless LAN	Wireless LAN supplicant CRL directory designation	ALL	-	-	This should be the path name of the directory in full where the CRL file is located. (Maximum 255 letters)	12
1699	Wireless LAN	Wireless LAN supplicant EAP authentication type	ALL	1 <1-3>	-	This setting is for the EAP authentication type which xsupplicant can authenticate. 1: EAP-TLS 2: PEAP 3: EAP-TLS and PEAP	12
1700	Wireless LAN	Wireless LAN supplicant CN name	ALL	-	-	This should be an authentication server name (basically a domain name in full). (Maximum 255 letters)	12

Setting mode (08) <e-STUDIO352/353/452/453>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
1701	Wireless LAN	Wireless LAN supplicant CN name check	ALL	1 <1-2>	-	1: NO 2: YES	12
1704	Wireless LAN	Wireless LAN supplicant Update interval of PTK (Pairwise Transient Key)	ALL	0 <0-720>	-	The update interval of a secret key across AP (Access Point) and STA (Station) can be set. This interval is for updating the secret key from STA. 0: Not updated 1-720: 1-720 minutes of interval	12
1705	Wireless LAN	Wireless LAN supplicant Strict packet check	ALL	1 <1-2>	-	The Ack bit and request bit of EAPOL-Key is checked. 1: Not checked 2: Checked	12
1706	Wireless LAN	Wireless LAN supplicant Priority change at 4-way handshake	ALL	1 <1-2>	-	A higher priority is given to the xsupplicant task when a 4-way handshake is started. 1: Priority not changed 2: Priority changed	12
1707	Wireless LAN	Wireless LAN supplicant Security level	ALL	1 <1-3>	-	The encryption capability output in TLS clientHello message can be selected. 1: LOW 2: MIDDLE 3: HIGH	12
1708	User interface	Selectable security level (EAP-TLS)	ALL	1 <1-3>	-	These are the security level which can be selected from the user interface. This setting is not applied in case of PEAP. ("LOW" and "MIDDLE" is mandatory for PEAP) 1: LOW + MIDDLE + HIGH 2: MIDDLE + HIGH 3: HIGH	12
1709	Blue-tooth	Bluetooth Installation status of option	ALL	0 <0-1>	SYS	0: Not installed 1: Installed	1
1710	Blue-tooth	Bluetooth ON/OFF setting	ALL	1 <0-1>	SYS	0: OFF 1: ON	1
1711	Blue-tooth	Bluetooth Device name	ALL	MFP	SYS	Maximum 32 letters	11
1712	Blue-tooth	Bluetooth Discovery	ALL	1 <0-1>	SYS	0: Not allowed 1: Allowed	1
1713	Blue-tooth	Bluetooth Security	ALL	1 <0-1>	SYS	0: Security function OFF 1: Security function ON	1
1714	Blue-tooth	Bluetooth PIN	ALL	0000	SYS	Maximum 8 digits (8-digit sequence) This setting is valid only when the bluetooth security function is ON.	11

Setting mode (08) <e-STUDIO352/353/452/453>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
1715	Bluetooth	Bluetooth Data encryption	ALL	1 <0-1>	SYS	0: Not encrypted 1: Encrypted This setting is valid only when the bluetooth security function is ON.	1
1716	Bluetooth	Bluetooth HCRP reception time-out period	ALL	6 <1-50>	SYS	Setting value ~ 0.5 sec.	1
1717	Bluetooth	Bluetooth HCRP transmission time-out period	ALL	6 <1-50>	SYS	Setting value ~ 0.5 sec.	1
1719	Bluetooth	Bluetooth BIP Paper type	ALL	0 <0-3>	SYS	0: Fit page 1: 1/2 size 2: 1/4 size 3: 1/8 size	1
1720	Network	IP address range for IP filter (Minimum area 1)	ALL	-	-	IP filter minimum area 1 000.000.000.000- 255.255.255.255 (Default value: 000.000.000.000)	12
1721	Network	IP address range for IP filter (Maximum area 1)	ALL	-	-	IP filter maximum area 1 000.000.000.000- 255.255.255.255 (Default value: 000.000.000.000)	12
1722	Network	IP address range for IP filter I (Minimum area 2)	ALL	-	-	IP filter minimum area 2 000.000.000.000- 255.255.255.255 (Default value: 000.000.000.000)	12
1723	Network	IP address range for IP filter (Maximum area 2)	ALL	-	-	IP filter maximum area 2 000.000.000.000- 255.255.255.255 (Default value: 000.000.000.000)	12
1724	Network	IP address range for IP filter (Minimum area 3)	ALL	-	-	IP filter minimum area 3 000.000.000.000- 255.255.255.255 (Default value: 000.000.000.000)	12
1725	Network	IP address range for IP filter (Maximum area 3)	ALL	-	-	IP filter maximum area 3 000.000.000.000- 255.255.255.255 (Default value: 000.000.000.000)	12
1726	Network	IP address range for IP filter (Minimum area 4)	ALL	-	-	IP filter minimum area 4 000.000.000.000- 255.255.255.255 (Default value: 000.000.000.000)	12

Setting mode (08) <e-STUDIO352/353/452/453>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
1727	Network	IP address range for IP filter (Maximum area 4)	ALL	-	-	IP filter maximum area 4 000.000.000.000- 255.255.255.255 (Default value: 000.000.000.000)	12
1728	Network	IP address range for IP filter (Minimum area 5)	ALL	-	-	IP filter minimum area 5 000.000.000.000- 255.255.255.255 (Default value: 000.000.000.000)	12
1729	Network	IP address range for IP filter (Maximum area 5)	ALL	-	-	IP filter maximum area 5 000.000.000.000- 255.255.255.255 (Default value: 000.000.000.000)	12
1730	Network	IP address range for IP filter (Minimum area 6)	ALL	-	-	IP filter minimum area 6 000.000.000.000- 255.255.255.255 (Default value: 000.000.000.000)	12
1731	Network	IP address range for IP filter (Maximum area 6)	ALL	-	-	IP filter maximum area 6 000.000.000.000- 255.255.255.255 (Default value: 000.000.000.000)	12
1732	Network	IP address range for IP filter (Minimum area 7)	ALL	-	-	IP filter minimum area 7 000.000.000.000- 255.255.255.255 (Default value: 000.000.000.000)	12
1733	Network	IP address range for IP filter (Maximum area 7)	ALL	-	-	IP filter maximum area 7 000.000.000.000- 255.255.255.255 (Default value: 000.000.000.000)	12
1734	Network	IP address range for IP filter (Minimum area 8)	ALL	-	-	IP filter minimum area 8 000.000.000.000- 255.255.255.255 (Default value: 000.000.000.000)	12
1735	Network	IP address range for IP filter (Maximum area 8)	ALL	-	-	IP filter maximum area 8 000.000.000.000- 255.255.255.255 (Default value: 000.000.000.000)	12
1736	Network	IP address range for IP filter (Minimum area 9)	ALL	-	-	IP filter minimum area 9 000.000.000.000- 255.255.255.255 (Default value: 000.000.000.000)	12

Setting mode (08) <e-STUDIO352/353/452/453>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
1737	Network	IP address range for IP filter (Maximum area 9)	ALL	-	-	IP filter maximum area 9 000.000.000.000- 255.255.255.255 (Default value: 000.000.000.000)	12
1738	Network	IP address range for IP filter (Minimum area 10)	ALL	-	-	IP filter minimum area 10 000.000.000.000- 255.255.255.255 (Default value: 000.000.000.000)	12
1739	Network	IP address range for IP filter (Maximum area 10)	ALL	-	-	IP filter maximum area 10 000.000.000.000- 255.255.255.255 (Default value: 000.000.000.000)	12
1740	Network	SSL setting HTTP server OFF/ON setting	ALL	2 <1-2>	-	1: Enabled 2: Disabled	12
1741	Network	SSL setting HTTP server port number	ALL	10443 <1- 65535>	-	SSL HTTP server port number	12
1742	Network	SSL setting IPP server OFF/ON setting	ALL	2 <1-2>	-	1: Enabled 2: Disabled	12
1743	Network	SSL setting IPP server port number	ALL	443 <1- 65535>	-	SSL IPP server port number	12
1744	Network	SSL setting SSL ftp server OFF/ON	ALL	2 <1-2>	-	OFF/ON 1: Valid 2: Invalid	12
1745	Network	SSL setting SSL ftp server Port	ALL	990 <1- 65535>	-	Port number to FTP Server	12
1746	Network	SSL setting SSL LDAP Client OFF/ON	ALL	2 <1-3>	-	OFF/ON 1: Valid 2: Invalid 3: Use imported certificate	12
1747	Network	SSL setting SSL LDAP Client Port	ALL	636 <1- 65535>	-	Port number to LDAP Server	12
1748	Network	SSL setting SSL POP3 Client OFF/ON	ALL	2 <1-3>	-	OFF/ON 1: Valid 2: Invalid 3: Use imported certificate	12
1749	Network	SSL setting SSL POP3 Client Port	ALL	995 <1- 65535>	-	Port number to POP3 Server	12

Setting mode (08) <e-STUDIO352/353/452/453>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
1750	Network	SSL setting SSL SMTP Client OFF/ON	ALL	2 <2-6>	-	2: Invalid 3: Accept all certificates of SMTP with TLS (STARTTLS) server 4: Accept all certificates of SMTPS (SMTP OverSSL) server 5: Use imported certificates of SMTP with TLS (STARTTLS) server 6: Use imported certificates of SMTPS (SMTP OverSSL) server	12
1751	Network	SSL setting SSL SMTP Client Port	ALL	465 <1-65535>	-	Port number to SMTP Server	12
1755	Network	Enabling server's IP address acquired by DHCP	ALL	2 <1-2>	-	Domain Name Server option (6) 1: Enabled 2: Disabled * This value is used only when DHCP is enabled.	12
1756	Network	Enabling server's IP address acquired by DHCP	ALL	2 <1-2>	-	NetBIOS over TCP/IP Name Server option (44) = Primary and Secondary Wins NAME 1: Enabled 2: Disabled * This value is used only when DHCP is enabled.	12
1757	Network	Enabling server's IP address acquired by DHCP	ALL	1 <1-2>	-	The Host Name Vendor Extension option (12) 1: Enabled 2: Disabled * This value is used only when DHCP is enabled.	12
1759	Network	Enabling server's IP address acquired by DHCP	ALL	2 <1-2>	-	SMTP Server Option (69) Simple Mail Server Address 1: Enabled 2: Disabled * This value is used only when DHCP is enabled.	12



Setting mode (08) <e-STUDIO352/353/452/453>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
1760	Network	Enabling server's IP address acquired by DHCP	ALL	2 <1-2>	-	POP3 Server Option (70) Post Office Server Address 1: Enabled 2: Disabled * This value is used only when DHCP is enabled.	12
1762	Network	Enabling server's IP address acquired by DHCP	ALL	2 <1-2>	-	SNTP Server Option (42) NTP Server Address 1: Enabled 2: Disabled * This value is used only when DHCP is enabled.	12
1764	Wireless LAN	Wireless LAN supplicant Control sequence setting of "Cipher Suite"	ALL	-	-	Maximum 255 letters	12
1765	Wireless LAN	Wireless LAN supplicant Path name for user certificate	ALL	-	-	Maximum 63 letters	12
1766	Wireless LAN	Wireless LAN supplicant Path name entered for CA self-certificate	ALL	-	-	Maximum 63 letters	12
1767	Network	Enabling server's IP address acquired by DHCP	ALL	2 <1-2>	SYS	DNS domain name Option (15) DNS domain name of the client 1: Enabled 2: Disabled * This value is used only when DHCP is enabled.	12
1768	General	Previous IP address	ALL	-	-	000.000.000.000-255.255.255.255 (Default value: 000.000.000.000)	12

Setting mode (08) <e-STUDIO352/353/452/453>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
1772	General	Card reading device setting	ALL	0 <8 digits>	SYS	<p>To enable the e-Bridge ID Gate, a card reading device should be set in the order of "ABYYZZZZ". (Enter the corresponding values to "A", "B", "YY" and "ZZZZ".)</p> <ul style="list-style-type: none"> <li>- AB:Special setting</li> <li>- A :Debugging NIC <ul style="list-style-type: none"> <li>0: Not used</li> <li>1: Used</li> </ul> </li> <li>- B :Interface <ul style="list-style-type: none"> <li>0: USB connection</li> <li>1: N/A</li> </ul> </li> <li>- YY: Authentication <ul style="list-style-type: none"> <li>00: No authentication using a noncontact IC card</li> <li>02: Authentication using a noncontact IC card (KP-2003)</li> <li>03: Authentication using a noncontact IC card (KP-2005)</li> <li>04: Authentication using a noncontact IC card (KP-2004)</li> </ul> </li> <li>- ZZZZ: Sub-code <ul style="list-style-type: none"> <li>0000: No authentication using a noncontact IC card</li> <li>0001: Use CSN (Card Serial Number) of a noncontact IC card</li> <li>0002: Use the Data Area Address Information of a noncontact IC card</li> </ul> </li> </ul>	5

Setting mode (08) <e-STUDIO352/353/452/453>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
1773	General	Card reader format information -1	ALL	-	SYS	<p>To access the data in the noncontact IC card, the Key Information "LLLL" and the Sector Number "MMMM" should be set. The "LLLL" should be set first, and then "MMMM".</p> <p>KP-2003:            LLLL: System code (hexadecimal number)            MMMM: Service code (hexadecimal number)</p> <p>KP-2005:            LLLL : Key information            MMMM: Sector number (hexadecimal number)</p>	5
1774	General	Card reader format information -2	ALL	-	SYS	<p>The data of the block number in the noncontact IC is set.</p> <p>KP-2003: &lt;PPQRSSTU (hexadecimal number)&gt;            PP: 1st block            Q: 1st block beginning byte            R: 1st block ending byte            SS: 2nd block            T: 2nd block beginning byte            U: 2nd block ending byte</p> <p>KP-2005: &lt;RRBSEbse (hexadecimal number)&gt;            RR: 00 (Fixed)            B: 1st area block number            S: 1st area beginning byte offset            E: 1st area ending byte offset            b: 2nd area block number            s: 2nd area beginning byte offset            e: 2nd area ending byte offset</p> <p>* If the 2nd block/area is not used, set the SSTU to "FFFF" (hexadecimal number), the bse to "FFF" (hexadecimal number).</p>	5

Setting mode (08) <e-STUDIO352/353/452/453>								
Code	Classifi- cation	Items		Func- tion	Default <Accept- able value>	RAM	Contents	Pro- cedur e
1775	General	Card reader format infor- mation -3		ALL	-	SYS	Security key "KKKKKKKKKKKKKK" (12 digits) <hexadecimal number> in the [Key Information] of the [Sec- tor Number] set in the code 08-1773 should be entered.	5
1776	General	Card authentication LDAP server		ALL	0 <0-100>	SYS	LDAP server number for the card authentica- tion when a noncontact IC card is used should be set.	1
1777	General	Card authentication LDAP search index		ALL	-	SYS	LDAP search index when a noncontact IC card is used is set.	11
1778	General	Period for locking the con- trol panel when an incor- rect administrator password has been entered 3 consecutive times		ALL	1 <0-7>	SYS	0: 0 min. 1: 0.5 min. (30 sec.) 2: 1 min. 3: 3 min. 4: 5 min. 5: 10 min. 6: 15 min. 7: 30 min.	1
1779	Network	Default data saving direc- tory of "Scan to File"		ALL	0 <0-2>	SYS	0: Local directory 1: REMOTE 1 2: REMOTE 2	1
1781-0	Network	Notification of scan job	When job completed	ALL	0 <0-1>	SYS	Sets the notification method of scan job completion. 0: Invalid 1: Valid	4
1781-1			On error	ALL	0 <0-1>	SYS		4
1782	Network	File name format of "Save as file" and Email transmis- sion		ALL	0 <0-6>	SYS	Sets the naming method of the file of "Save as file" and Email transmission. 0: [FileName]-[Data]- [Page] 1: [FileName]-[Page]- [Data] 2: [Data]-[FileName]- [Page] 3: [Data]-[Page]-[File- Name] 4: [Page]-[FileName]- [Data] 5: [Page]-[Data]-[File- Name] 6: [HostName]_[Data]- [Page]	1

Setting mode (08) <e-STUDIO352/353/452/453>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
1783	Network	Date display format of the file name of "Save as file" and Email transmission	ALL	0 <0-5>	SYS	Sets the data display format of the file of "Save as file" and Email transmission. 0: [YYYY][MM][DD][HH][mm][SS] 1: [YY][MM][DD][HH][mm][SS] 2: [YYYY][MM][DD] 3: [YY][MM][DD] 4: [HH][mm][SS] 5: [YYYY][MM][DD][HH][mm][SS][mm0]  The order of [YY], [MM] and [DD] varies depending on the setting of the code 08-640 (Data display format).	1
1784	Network	Single page data saving directory at "Save as file"	ALL	0 <0-1>	SYS	Sets the directory where the file of "Save as file" is saved. 0: Save it under a subfolder 1: Save it without creating a subfolder	1
1785	Network	Page number display format of the file of "Save as file" and Email transmission	ALL	4 <3-6>	SYS	Sets the digit of a page number attached on the file. 3-6: 3-6 digits	1
1786	Network	Extension (suffix) format of the file of "Save as file"	ALL	3 <3-6>	SYS	Sets the extension digits of the file to be saved. 3: Auto 4: 4 digits 5: 5 digits 6: 6 digits	1
1850	Network	IPP MaxConnection	ALL	16 <1-16>	NIC	Number of maximum connections (IPP).	12
1851	Network	IPP ActiveConnection	ALL	10 <1-16>	NIC	Number of active connections (IPP).	12
1852	Network	LPD MaxConnection	ALL	10 <1-16>	NIC	Number of maximum connections (LPD).	12
1853	Network	LPD ActiveConnection	ALL	10 <1-16>	NIC	Number of active connections (LPD).	12
1854	Network	AppleTalk MaxConnection	ALL	10 <1-16>	NIC	Number of maximum connections (AppleTalk).	12
1855	Network	AppleTalk ActiveConnection	ALL	10 <1-16>	NIC	Number of active connections (AppleTalk).	12
1856	Network	RawPrint MaxConnection	ALL	10 <1-16>	NIC	Number of maximum connections (RawPrint).	12
1857	Network	RawPrint ActiveConnection	ALL	10 <1-16>	NIC	Number of active connections (RawPrint).	12
1911	Finisher	Manual stapling time-out period	ALL	15 <3~30>	M	3-30 sec. (in increments of 1 sec.)	1

Setting mode (08) <e-STUDIO352/353/452/453>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
1912	Finisher	Finisher model switching setting value	ALL	0 <0~1>	M	0: MJ-1023/MJ-1024 1: MJ-1101	1
1913	General	Page number addition on multipage file names of "File/Email"	ALL	0 <0-1>	SYS		1
1914	General	Maximum number of decimals in extension fields	ALL	2 <0-6>	SYS	0: 0 digit 1: 1 digit 2: 2 digits 3: 3 digits 4: 4 digits 5: 5 digits 6: 6 digits	1
1915	Network	Filing size for Network scanning function	ALL	0 <0-1>	SYS	0: Eliminates 2 mm from circumference (Void: 2 mm) 1: No space eliminated (Void: 0 mm)	1
1916	General	Default saving/attachment files of "File/Email"	ALL	0 <0-1>	SYS		1
1920	Network	Device domain name of device authentication	ALL	-	UTY	Maximum 128 letters	12
1921	Network	Windows domain No. 2 of user authentication	ALL	-	UTY	Maximum 128 letters	12
1922	Network	Windows domain No. 3 of user authentication	ALL	-	UTY	Maximum 128 letters	12
1923	Network	LDAP authentication Server type	ALL	1 <1-2>	NIC	1: Windows Server 2: Not Windows Server	12
1924	Network	LDAP authentication User attribute	ALL	-	NIC	Sets a user attribute name.	12
1925	Network	Execution of user authentication when the user ID is not entered	ALL	2 <0-2>	SYS	0: Forcible execution 1: Execution impossible (pooled in the invalid queue) 2: Forcible deletion	1
1926	FAX	Tab/cover sheet printing at FAX reception Printing stop function	ALL	0 <0-1>	SYS	Sets on or off of the printing function of special sheets such as tab or cover sheet of FAX, Email or list print. 0: Function off 1: Function on	1
1927	Network	LDAP server attribute name setting for card authentication	ALL	eBMUser Card	SYS	Up to 32 letters	11
1928	Network	Role Based Access LDAP search index	ALL	0 <0-4294967295>	SYS		5
1929	User interface	Keyboard layout for Language 1	ALL	0 <0-2>	SYS	1: QWERTY layout (for Europe) 2: QWERTZ layout 3: AZERTY layout	1
1930	User interface	Keyboard layout for Language 2	ALL	1 <0-2>	SYS	1: QWERTY layout (for Europe) 2: QWERTZ layout 3: AZERTY layout	1

Setting mode (08) <e-STUDIO352/353/452/453>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
1931	User interface	Keyboard layout for Language 3	ALL	EUR:2 Other:0 <0-2>	SYS	1: QWERTY layout (for Europe) 2: QWERTZ layout 3: AZERTY layout	1
1932	User interface	Keyboard layout for Language 4	ALL	0 <0-2>	SYS	1: QWERTY layout (for Europe) 2: QWERTZ layout 3: AZERTY layout	1
1933	User interface	Keyboard layout for Language 5	ALL	0 <0-2>	SYS	1: QWERTY layout (for Europe) 2: QWERTZ layout 3: AZERTY layout	1
1934	User interface	Keyboard layout for Language 6	ALL	0 <0-2>	SYS	1: QWERTY layout (for Europe) 2: QWERTZ layout 3: AZERTY layout	1
1935	User interface	Keyboard layout for Language 7	ALL	0 <0-2>	SYS	1: QWERTY layout (for Europe) 2: QWERTZ layout 3: AZERTY layout	1
1936	Network	AppleTalk device name	ALL	MFP_serial	UTY	Maximum 32 letters The Network-related serial number of the equipment appears at "serial".	12
1937	Network	User name and password at user authentication or "Save as file"	ALL	0 <0-2>	SYS	0: User name and password of the device 1: User name and password at the user authentication (Template registration information comes first when a template is retrieved.) 2: User name and password at the user authentication (User information of the authentication comes first when a template is retrieved.)	1
1940	General	STAGE port number	SCN	20080 <0-65535>	SYS	Port number used for the remote scanning is set.	1
1941	Bluetooth	Bluetooth BIP Paper size	ALL	EUR: 6 UC: 2 JPN: 6 <0-13>	SYS	0: Ledger 1: Legal 2: Letter 3: Computer 4: Statement 5: A3 6: A4 7: A5 8: A6 9: B4 10: B5 11: Folio 12: Legal13" 13: LetterSquare	1
1942	Network	Device authentication PDC/BDC time-out period	ALL	60 <1-180>	NIC	Unit: Second	12

Setting mode (08) <e-STUDIO352/353/452/453>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
1943	Network	User authentication PDC/BDC time-out period	ALL	30 <1-180>	NIC	Unit: Second	12
1944	Network	Device/User authentication Method of Windows domain authentication	ALL	1 <1-3>	NIC	1: Auto 2: Kerberos 3: NTLMv2	12
1950	Network	SMB signature for SMB server	ALL	1 <1-3>	UTY	1: Auto 2: Valid 3: Invalid	12
1951	Network	SMB signature for SMB cli- ent	ALL	1 <1-3>	UTY	1: Auto 2: Valid 3: Invalid	12
1952	Network	Device name for device authentication	ALL	-	UTY	Maximum 128 letters	12
1953	Network	Password for the device name used for device authentication	ALL	-	UTY	Maximum 128 letters	12
1954	Network	PDC2 of user authentica- tion	ALL	-	UTY	Maximum 128 letters	12
1955	Network	BDC2 of user authentica- tion	ALL	-	UTY	Maximum 128 letters	12
1956	Network	PDC3 of user authentica- tion	ALL	-	UTY	Maximum 128 letters	12
1957	Network	BDC3 of user authentica- tion	ALL	-	UTY	Maximum 128 letters	12
1958	Network	PDC of device authentica- tion	ALL	-	UTY	Maximum 128 letters	12
1959	Network	BDC of device authentica- tion	ALL	-	UTY	Maximum 128 letters	12
1960	General	KS Filter operation mode	ALL	0 <0-1>	SYS	0: Disabled 1: Enabled	1
1961	General	KS/KSSM setting all clear- ing	ALL	-	-	Does not reset the value of the code 08- 1960 but resets those of the codes 08-1963 to 1994.	3
1963	General	KS Filter Emulation Mode	ALL	0 <0-2>	SYS	0: Auto 1: KS 2: KSSM	1
1964	General	KS Filter Paper Size	ALL	1 <0-5>	SYS	0: A3 1: A4 2: B4 3: B5 4: Letter 5: Legal	1
1965	General	KS Filter Orientation	ALL	0 <0-1>	SYS	0: Portrait 1: Landscape	1
1966	General	KS Filter Copies	ALL	1 <1-999>	SYS		1
1967	General	KS Paper Source	ALL	0 <0-1>	SYS		1
1968	General	KS Duplex Mode	ALL	0 <0-2>	SYS		1



Setting mode (08) <e-STUDIO352/353/452/453>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
1970	General	KS CPI (English CPI/ Hangle CPI)	ALL	1 <0-10>	SYS	0: (5/10) 1: (6/12) 2: (6.7/13.3) 3: (6.9/13.8) 4: (7.5/15) 5: (8.3/16.7) 6: (9/18) 7: (10/10) 8: (10/20) 9: (12/24) 10: (15/30)	1
1971	General	KS LPI	ALL	60 <30-160>	SYS	Key in the value 10 times as the desired font size. (e.g.: Key in "45" for a font size 4.5.)	1
1972	General	KS Type Face	ALL	0 <0-5>	SYS	0: MYUNGJO 1: GOTHIC 2: GUNGSEO 3: GULLIM 4: GRAPH 5: SAMMUL	1
1973	General	KS Font Size	ALL	96 <96-160>	SYS	Key in the value 10 times as the desired font size. (e.g.: Key in "100" for a font size 10.0.)	1
1974	General	KS Zoom	ALL	100 <20-400>	SYS		1
1975	General	KS CR/LF Mode	ALL	2 <0-3>	SYS	0: CR->CR, LF->LF 1: CR->CR+LF, LF->LF 2: CR->CR, LF->CR+LF 3: CR->CR+LF, LF->CR+LF	1
1976	General	KS Top Margin	ALL	0 <0-50>	SYS	Key in the value 10 times as the desired font size. (e.g.: Key in "40" for a font size 4.0.)	1
1977	General	KS Left Margin	ALL	0 <0-50>	SYS	Key in the value 10 times as the desired font size. (e.g.: Key in "40" for a font size 4.0.)	1
1978	General	KS Auto Wrap	ALL	0 <0-1>	SYS	0: OFF 1: ON	1
1979	General	KS Han Mode	ALL	1 <0-1>	SYS	0: OFF 1: ON	1
1980	General	KS Han Code	ALL	0 <0-1>	SYS	0: Wansung 1: Johap	1

Setting mode (08) <e-STUDIO352/353/452/453>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
1984	General	KSSM CPI (English CPI/ Hangle CPI)	ALL	1 <0-10>	SYS	0: (5/10) 1: (6/12) 2: (6.7/13.3) 3: (6.9/13.8) 4: (7.5/15) 5: (8.3/16.7) 6: (9/18) 7: (10/10) 8: (10/20) 9: (12/24) 10: (15/30)	1
1985	General	KSSM LPI	ALL	60 <30-160>	SYS	Key in the value 10 times as the desired font size. (e.g.: Key in "45" for a font size 4.5.)	1
1986	General	KSSM Type Face	ALL	0 <0-5>	SYS	0: MYUNGJO 1: GOTHIC 2: GUNGSEO 3: GULLIM 4: GRAPH 5: SAMMUL	1
1987	General	KSSM Font Size	ALL	96 <96-160>	SYS	Key in the value 10 times as the desired font size. (e.g.: Key in "100" for a font size 10.0.)	1
1988	General	KSSM Zoom	ALL	100 <20-400>	SYS		1
1989	General	KSSM CR/LF Mode	ALL	2 <0-3>	SYS	0: CR->CR, LF->LF 1: CR->CR+LF, LF->LF 2: CR->CR, LF->CR+LF 3: CR->CR+LF, LF->CR+LF	1
1990	General	KSSM Top Margin	ALL	0 <0-50>	SYS	Key in the value 10 times as the desired font size. (e.g.: Key in "40" for a font size 4.0.)	1
1991	General	KSSM Left Margin	ALL	0 <0-50>	SYS	Key in the value 10 times as the desired font size. (e.g.: Key in "40" for a font size 4.0.)	1
1992	General	KSSM Auto Wrap	ALL	0 <0-1>	SYS	0: OFF 1: ON	1
1993	General	KSSM Han Mode	ALL	1 <0-1>	SYS	0: OFF 1: ON	1
1994	General	KSSM Han Code	ALL	0 <0-1>	SYS	0: Wansung 1: Johap	1
3506	General	"Attribute 1" indicated in the LDAP search result	ALL	company	SYS	Attribute name for "Attribute 1" indicated in the LDAP search result list	11

Setting mode (08) <e-STUDIO352/353/452/453>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Pro- cedure
3507	General	"Attribute 2" indicated in the LDAP search result	ALL	department	SYS	Attribute name for "attribute 2" indicated in the LDAP search result list	11
3736	Network	DNS Client Time Out	ALL	60 <1-180>	NIC	Use when a timeout occurred at DNS client connection	12
3737	Network	DDNS Client Time Out	ALL	60 <1-180>	NIC	Use when a timeout occurred at DDNS client connection	12
3738	Network	HTTP Client Time Out	ALL	60 <1-180>	NIC	Use when a timeout occurred at HTTP client connection	12
3739	Network	FTP Client Time Out (SCAN)	ALL	30 <1-180>	NIC	Use when a timeout occurred at FTP client connection	12
3740	Network	SNTP Client Time Out	ALL	30 <1-180>	NIC	Use when a timeout occurred at SNTP client connection	12
3741	Network	SMTP Client Time Out	ALL	30 <1-180>	NIC	Use when a timeout occurred at SMTP client connection	12
3742	Network	POP3 Client Time Out	ALL	30 <1-180>	NIC	Use when a timeout occurred at POP3 client connection	12
3743	Network	LDAP Client Time Out	ALL	30 <1-180>	NIC	Use when a timeout occurred at LDAP client connection	12
3744	Network	POP3 Authentication method	ALL	1 <1-3>	NIC	POP3 authentication method setting 1: Disable (Default) 2: NTLM 3: Kerberos	12
3745	General	Secure DDNS Primary Login Name	ALL	- <1-128>	NIC	Login name for login with the Primary DDNS	12
3746	General	Secure DDNS Primary Login Password	ALL	- <1-128>	NIC	Login password for login with the Primary DDNS	12
3747	General	Secure DDNS Secondary Login Name	ALL	- <1-128>	NIC	Login name for login with the Secondary DDNS	12
3748	General	Secure DDNS Secondary Login Password	ALL	- <1-128>	NIC	Login password for login with the Secondary DDNS	12
3749	General	DPWS Friendly Name	ALL	-	NIC	MFP name indicated in DPWS search result <Default value> TOSHIBA e-STUDIOxxx [NIC serial number]	12
3750	General	DPWS Printer Name	ALL	-	NIC	Printer name used for installing the printer with DPWS <Default value> TOSHIBA e-STUDIOxxx Printer- [NIC serial number]	12

Setting mode (08) <e-STUDIO352/353/452/453>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
3751	General	DPWS Scanner Name	ALL	-	NIC	Scanner name used for installing the printer with DPWS <Default value> TOSHIBA e-STUDIOxxx Scanner-[NIC serial number]	12
3752	General	DPWS Printer Information	ALL	-	NIC	Information regarding DPWS printer <Default value> NULL	12
3753	General	DPWS Scanner Information	ALL	-	NIC	Information regarding DPWS scanner <Default value> NULL	12
3754	Network	Switching DPWS Printer setting	ALL	1 <1-3>	NIC	DPWS printer /DPWS secure printer function is switched. 1: Enabled 2: Disabled 3: Security enabled	12
3755	Network	Switching DPWS Scanner setting	ALL	1 <1-2>	NIC	DPWS scanner function is switched. 1: Enabled 2: Disabled	12
3756	Network	Switching DPWS Security setting	ALL	1 <1-2>	NIC	DPWS security function is switched. 1: Enabled 2: Disabled	12
3757	Network	DPWS Discovery Port Number	ALL	3702 <1-65535>	NIC	Port number used for DPWS Discovery	12
3758	Network	DPWS Metadata Exchange Port Number	ALL	5081 <1-65535>	NIC	Port number used for DPWS Metadata Exchange	12
3759	Network	DPWS Print Port Number	ALL	5082 <1-65535>	NIC	Port number used for DPWS Print	12
3760	Network	DPWS Scan Port Number	ALL	5083 <1-65535>	NIC	Port number used for DPWS Scan	12
3761	Network	DPWS Security Discovery Port Number	ALL	3702 <1-65535>	NIC	Port number used for DPWS Security Discovery	12
3762	Network	DPWS Security Metadata Exchange Port Number	ALL	5084 <1-65535>	NIC	Port number used for DPWS Security Metadata Exchange	12
3763	Network	DPWS Security Print Port Number	ALL	5085 <1-65535>	NIC	Port number used for DPWS Security Print	12
3764	Network	DPWS Security Scan Port Number	ALL	5086 <1-65535>	NIC	Port number used for DPWS Security Scan	12
3765	Network	DPWS Print Max numbers of connection	ALL	10 <1-20>	NIC	Maximum numbers received from more than one connection request in the DPWS print	12

Setting mode (08) <e-STUDIO352/353/452/453>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
3766	Network	DPWS Print Max numbers of reception	ALL	10 <1-20>	NIC	Maximum numbers of data received from more than one clients in the DPWS print	12
3767	Network	Switching IPv6 setting	ALL	2 <1-2>	NIC	IPv6 function is switched. 1: Enabled 2: Disabled	12
3768	Network	Switching IP(IPv6) Address Acquisition	ALL	2 <1-2>	NIC	IP(IPv6) Address Acquisition setting is switched. 1: Manual 2: Auto configuration	12
3769	Network	Link Local Address	ALL	- <0-16>	NIC	Link Local Address is displayed. Unique IP address (128 bits) is set using Mac address.	12
3770	Network	IPv6 Address	ALL	0 <0-16>	NIC	DHCPv6 Address in Manual/Auto configuration is displayed.	12
3771	Network	Prefix display setting	ALL	0 <0-128>	NIC	The range of Prefix display is set.	12
3772	Network	Default Gateway setting	ALL	0 <0-16>	NIC	Default Gateway of DHCPv6 Address in Manual/Auto configuration is set.	12
3773	Network	Displaying previous DHCPv6 Address	ALL	0 <0-16>	NIC	The previous DHCPv6 Address is displayed.	12
3774	Network	DHCPv6 Option setting	ALL	2 <1-2>	NIC	DHCPv6 Option is switched when the Manual is set. 1: Enabled 2: Disabled	12
3775	Network	Stateless Address Auto Configuration	ALL	1 <1-2>	NIC	Stateless Address Auto Configuration is switched. 1: Enabled 2: Disabled	12
3776	Network	Stateless Address setting continuation	ALL	2 <1-2>	NIC	When Prefix sent from router is changed, Stateless Address is continued to be set. 1: Enabled 2: Disabled	12
3777	Network	Stateless Address setting	ALL	2 <1-2>	NIC	IP Address is acquired by both Stateless and State full Address. 1: Enabled 2: Disabled	12
3778	Network	Acquiring DHCPv6 Option	ALL	2 <1-2>	NIC	When Stateless Address is selected, an option is acquired from DHCPv6 server. 1: Enabled 2: Disabled	12

Setting mode (08) <e-STUDIO352/353/452/453>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
3779	Network	State full Address setting	ALL	2 <1-2>	NIC	IP Address is acquired from DHCPv6 server. 1: Enabled 2: Disabled	12
3780	Network	State full Option setting	ALL	2 <1-2>	NIC	An option is acquired from DHCPv6 server. 1: Enabled 2: Disabled	12
3781	Network	Primary DNS Server Address Registration	ALL	0 <0-16>	NIC	Registration of Primary DNS Server Address	12
3782	Network	Secondary DNS Server Address Registration	ALL	0 <0-16>	NIC	Registration of Secondary DNS Server Address	12
3783	Network	Selecting SAMBA Protocol	ALL	2 <2-3>	NIC	Either IPv6 or IPv4 is selected to use SAMBA. 2: IPv6 3: IPv4	12
3784	Network	DSN Server resolve type	ALL	4 <1-4>	NIC	Either "ip6.arpa" or "ip6.int" is selected for the name resolution in DNS. 1: "ip6.arpa" only 2: "ip6.int" only 3: In case of error with "ip6.int", "ip6.arpa" is requested. 4: In case of error with "ip6.arpa", "ip6.int" is requested.	12
3785	Network	DPWS IPv4 or IPv6 with IPv6	ALL	2 <1-2>	NIC	Either IPv4 only or IPv6 together with it is selected to operate Print, Scan and Security related with DPWS. 1: Multi (IPv4 and IPv6) 2: IPv4	12
3793	Network	Switching LLTD setting	ALL	1 <1-2>	NIC	LLTD function is switched. 1: Enabled 2: Disabled	12
3794	Network	Switching LLMNR setting	ALL	2 <1-2>	NIC	LLMNR function is switched. 1: Enabled 2: Disabled	12
3804	Scanner	List Analysis Logic of Scan to File (FTP)	ALL	0 <0-1>	SYS	Acquisition of Contents in Host side is switched by Scan to File (FTP). 0: NLST 1: LIST	1

Setting mode (08) <e-STUDIO352/353/452/453>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
3805	Scanner	Department Management setting by Remote Scan	ALL	0 <0-3>	SYS	Department Management is set when Remote Scan is performed. 0: w/o GUI OFF, w/ GUI OFF 1: w/o GUI ON, w/ GUI OFF 2: w/o GUI OFF, w/ GUI ON 3: w/o GUI ON, w/ GUI ON	1
3810	Network	Direct SMTP communication setting	ALL	0 <0-1>	SYS	When an Internet Fax is sent, Direct SMTP communication is set. 0: Disabled 1: Enabled  When "0: Disabled" is set, an Internet Fax is sent using an SMTP server.  When "1: Enabled" is set, direct SMTP communication is enabled and an Internet Fax is sent to MFPs on the intranet without using an SMTP server. Since no SMTP server is used, the SSL encryption and SMTP-AUTH function cannot be used for internet Fax transmission. If "1: Enabled" is set in 08-3810, set "1: Enabled" in 08-3812 as well.	1
3811	Network	Image encrypting at the Direct SMTP communication	ALL	0 <0-1>	SYS	When Direct SMTP communication is performed, an attached image is encrypted. 0: Disabled 1: Enabled	1
3812	Scanner	Dummy full mode at the Internet Fax transmission	ALL	0 <0-1>	SYS	When an Internet Fax is sent, the resolution ratio and the paper size of an attached image are set to the full mode. 0: Disabled 1: Enabled If "1: Enabled" is set in 08-3810, set "1: Enabled" in 08-3812 as well.	1

Setting mode (08) <e-STUDIO352/353/452/453>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
3815	Scanner	XPS file thumbnail addition	ALL	1 <0-1>	SYS	Thumbnail is added to the XPS file produced by the Scan function. 0: Not added 1: Only the top page added	1
3816	Scanner	XPS file paper size setting	ALL	1 <0-1>	SYS	The paper size of the XPS file produced by the Scan function is set. 0: Scanned image size 1: Standard size	1
3817	Scanner	PDF file version setting	ALL	0 <0-1>	SYS	The version of PDF file produced by the Scan function is set. 0: PDF V1.3 1: PDF V1.4	1
3818	Scanner	DPWS Scan operation mode	ALL	1 <0-1>	SYS	The operation mode in the DPWS Scan function is switched. 0: Batch type 1: Serial type	1
3819	General	Network Fax/Internet Fax processing mode (STD)	ALL	2 <0-2>	SYS	The processing mode of the network Fax/Internet Fax is switched. 0: High speed/Low image quality 1: Standard 2: Low speed/High image quality	1
3820	General	Network Fax/Internet Fax processing mode (FINE)	ALL	0 <0-2>	SYS	The processing mode of the network Fax/Internet Fax is switched. 0: High speed/Low image quality 1: Standard 2: Low speed/High image quality	1
3821	General	Network Fax/Internet Fax processing mode (S-FINE)	ALL	0 <0-2>	SYS	The processing mode of the network Fax/Internet Fax is switched. 0: High speed/Low image quality 1: Standard 2: Low speed/High image quality	1
3822	General	Network Fax/Internet Fax processing mode (U-FINE)	ALL	0 <0-2>	SYS	The processing mode of the network Fax/Internet Fax is switched. 0: High speed/Low image quality 1: Standard 2: Low speed/High image quality	1



Setting mode (08) <e-STUDIO352/353/452/453>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
3823	General	Processing mode threshold for network Fax/Internet Fax (STD) [Standard]	ALL	254 <0-255>	SYS	Image quality adjustment when "Standard" is set for the Network Fax/Internet Fax processing mode (STD)	1
3824	General	Processing mode threshold for network Fax/Internet Fax (FINE) [Standard]	ALL	254 <0-255>	SYS	Image quality adjustment when "Standard" is set for the Network Fax/Internet Fax processing mode (FINE)	1
3825	General	Processing mode threshold for network Fax/Internet Fax (S-FINE) [Standard]	ALL	166 <0-255>	SYS	Image quality adjustment when "Standard" is set for the Network Fax/Internet Fax processing mode (S-FINE)	1
3826	General	Processing mode threshold for network Fax/Internet Fax (U-FINE) [Standard]	ALL	170 <0-255>	SYS	Image quality adjustment when "Standard" is set for the Network Fax/Internet Fax processing mode (U-FINE)	1
3827	General	Processing mode threshold for network Fax/Internet Fax (STD) [Low speed/High image quality]	ALL	200 <0-255>	SYS	Image quality adjustment when "Low speed/High image quality" is set for the Network Fax/Internet Fax processing mode (STD)	1
3828	General	Processing mode threshold for network Fax/Internet Fax (FINE) [Low speed/High image quality]	ALL	204 <0-255>	SYS	Image quality adjustment when "Low speed/High image quality" is set for the Network Fax/Internet Fax processing mode (FINE)	1
3829	General	Processing mode threshold for network Fax/Internet Fax (S-FINE) [Low speed/High image quality]	ALL	206 <0-255>	SYS	Image quality adjustment when "Low speed/High image quality" is set for the Network Fax/Internet Fax processing mode (S-FINE)	1
3830	General	Processing mode threshold for network Fax/Internet Fax (U-FINE) [Low speed/High image quality]	ALL	161 <0-255>	SYS	Image quality adjustment when "Low speed/High image quality" is set for the Network Fax/Internet Fax processing mode (U-FINE)	1
3831	Network	Mode switching for Role Based Access Control function	ALL	0 <0-1>	SYS	0: Require eBMUser-Role attribute 1: User available LDAP attribute	1
3833	General	Home directory function	ALL	0 <0-1>	SYS	Function to store a file in the user's home directory 0: Disabled 1: Enabled	1

Setting mode (08) <e-STUDIO352/353/452/453>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
3834	General	Backup file encryption	ALL	0 <0-1>	SYS	When the backup file is created from TopAccess, it is encrypted. 0: Enabled (Encryption) 1: Disabled (No encryption)	1
3837	General	Display switching for the machine name/computer name shown in the notification	ALL	0 <0-1>	SYS	The display method of the machine name/computer name shown in the event-related notification is switched. 0: IP address 1: NetBIOS name/FQDN	1
3840	General	Electronic License Key Registration	ALL	-	-	Licenses for Electronic License Key are registered.	3
3841	General	Electronic License Key Deletion	ALL	-	-	Registered licenses for Electronic License Key are deleted.	3
3842	General	Electronic License Key Display	ALL	-	-	All licenses stored in the ELK jig are displayed.	3
3845	Network	SNMP Trap Enterprise OID mode setting	ALL	0 <0-1>	SYS	Trap Enterprise OID is enabled for existing models. 0: Normal (Not enabling for existing models) 1: Enabled for existing models	1
3847	General	FAX mistransmission prevention	FAX	0 <0-1>	SYS	FAX mistransmission prevention function is switched. 0: OFF (Disabled) 1: ON (Enabled)	1
3848	General	Restriction on Address Book destination setting	FAX	0 <0-1>	SYS	Availability of destination selection from the Address Book is switched as one of FAX mistransmission prevention functions when setting FAX destinations 0: OFF (Disabled) 1: ON (Enabled) .	1
3849	General	Restriction on destination direct entry	FAX	0 <0-1>	SYS	Availability of direct entry is switched as one of FAX mistransmission prevention functions when setting FAX destinations. 0: OFF (Disabled) 1: ON (Enabled)	1

Setting mode (08) <e-STUDIO352/353/452/453>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
3850	General	Remote Scan User authentication	ALL	0 <0-3>	SYS	User authentication on Remote Scan driver is switched according to the availability of GUI. 0: OFF (No GUI) / OFF (GUI installed) 1: ON (No GUI) / OFF (GUI installed) 2: OFF (No GUI) / ON (GUI installed) 3: ON (No GUI) / ON (GUI installed)	1
3851	General	Template display	ALL	0 <0-1>	SYS	The order of displaying templates on the LCD screen is switched. 0: Order of IDs 1: Alphabetical order	1
3852	User interface	Automatic summer time change	ALL	0 <0-1>	SYS	Automatic summer time change on the day previously set is switched. 0: Disabled 1: Enabled	1
3853	User interface	Summer time mode Offset value	ALL	0 <0-7>	SYS	Summer time is started as follows when 08-3852 is enabled. 0: +2:00    1: +1:30 2: +1:00    3: +0:30 4: -0:30    5: -1:00 6: -1:30    7: -2:00	1
3854	User interface	Summer time mode Starting month	ALL	1 <1-12>	SYS	The month in which summer time is started is set. 1: January 2: February 3: March 4: April 5: May 6: June 7: July 8: August 9: September 10: October 11: November 12: December	1
3855	User interface	Summer time mode Starting week	ALL	1 <1-5>	SYS	The week in which summer time is started is set. 1: 1st 2: 2nd 3: 3rd 4: 4th 5: Last	1

Setting mode (08) <e-STUDIO352/353/452/453>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
3856	User interface	Summer time mode Starting day	ALL	0 <0-6>	SYS	The day on which summer time is started is set. 0: Sunday 1: Monday 2: Tuesday 3: Wednesday 4: Thursday 5: Friday 6: Saturday	1
3857	User interface	Summer time mode Starting time	ALL	0 <00-23>	SYS	The time at which summer time is started is set. 00-23	1
3858	User interface	Summer time mode Starting minute	ALL	0 <00-59>	SYS	The minute at which summer time is started is set. 00-59	1
3859	User interface	Summer time mode Ending month	ALL	1 <1-12>	SYS	The month in which summer time is ended is set. 1: January 2: February 3: March 4: April 5: May 6: June 7: July 8: August 9: September 10: October 11: November 12: December	1
3860	User interface	Summer time mode Ending week	ALL	1 <1-5>	SYS	The week in which summer time is ended is set. 1: 1st 2: 2nd 3: 3rd 4: 4th 5: Last	1
3861	User interface	Summer time mode Ending day	ALL	0 <0-6>	SYS	The day on which summer time is ended is set. 0: Sunday 1: Monday 2: Tuesday 3: Wednesday 4: Thursday 5: Friday 6: Saturday	1
3862	User interface	Summer time mode Ending time	ALL	0 <00-23>	SYS	The time at which summer time is ended is set. 00-23	1
3863	User interface	Summer time mode Ending minute	ALL	0 <00-59>	SYS	The minute at which summer time is ended is set. 00-59	1

Setting mode (08) <e-STUDIO352/353/452/453>								
Code	Classifi- cation	Items		Func- tion	Default <Accept- able value>	RAM	Contents	Pro- cedur e
3864	Network	Disclosing Telnet Server function		ALL	0 <0-1>	SYS	Disclosure of Telnet Server function is switched. 0: Not disclosed 1: Disclosed	1
3865	Network	Availability of Telnet Server		ALL	2 <1-2>	NIC	Availability of Telnet Server is switched. 1: Enabled 2: Disabled	12
3866	Network	Telnet Server TCP port number		ALL	23 <1- 65535>	NIC	A port number for Tel- net Server is set.	12
3867	Network	Telnet Server Server administrator's user name		ALL	Admin <Maxi- mum 15 letters>	NIC	A user name for the Tel- net Server administra- tor is confirmed.	12
3868	Network	Telnet Server Server administrator's password		ALL	System <Maxi- mum 15 letters>	NIC	A password for the Tel- net Server administra- tor is set.	12
6810-0	Counter	Number of output pages in black mode / Large size	1-UP / Duplex printing	PRT	0 <8 digits>	SYS	Counts the number of output pages printed only in the black mode.	4
6810-1			2-UP / Duplex printing	PRT	0 <8 digits>	SYS	Counts the number of output pages printed in the black mode using [2IN1] or [MAGAZINE SORT].	4
6810-2			2-UP / Simplex printing	PRT	0 <8 digits>	SYS	Counts the number of sheets printed in the black mode using [2IN1] or [MAGAZINE SORT].	4
6810-3			4-UP / Duplex printing	PRT	0 <8 digits>	SYS	Counts the number of output pages printed in the black mode using [4IN1].	4
6810-4			4-UP / Simplex printing	PRT	0 <8 digits>	SYS	Counts the number of sheets printed in the black mode using [4IN1].	4
6810-7			1-UP / Simplex printing	PRT	0 <8 digits>	SYS	Counts the number of output pages.	4

Setting mode (08) <e-STUDIO352/353/452/453>								
Code	Classification	Items		Function	Default <Acceptable value>	RAM	Contents	Procedure
6813-0	Counter	Number of output pages of the printer or BOX / Large	1-UP / Duplex printing	PRT	0 <8 digits>	SYS	Counts the number of output pages.	4
6813-1			2-UP / Duplex printing	PRT	0 <8 digits>	SYS	Counts the number of output pages using [2IN1] or [MAGAZINE SORT].	4
6813-2			2-UP / Simplex printing	PRT	0 <8 digits>	SYS	Counts the number of sheets using [2IN1] or [MAGAZINE SORT].	4
6813-3			4-UP / Duplex printing	PRT	0 <8 digits>	SYS	Counts the number of output pages using [4IN1].	4
6813-4			4-UP / Simplex printing	PRT	0 <8 digits>	SYS	Counts the number of sheets using [4IN1].	4
6813-5			N-UP / Duplex printing	PRT	0 <8 digits>	SYS	Counts the number of output pages using [N IN1].	4
6813-6			N-UP / Simplex printing	PRT	0 <8 digits>	SYS	Counts the number of sheets using [N IN1].	4
6813-7			1-UP / Simplex printing	PRT	0 <8 digits>	SYS	Counts the number of output pages.	4
6815-0	Counter	Number of output pages of the FAX printing / Large	1-UP / Simplex printing	FAX	0 <8 digits>	SYS	Counts the number of output pages in the default settings.	4
6815-7			1-UP / Duplex printing	FAX	0 <8 digits>	SYS		4
9117	Network	Raw printing job (Blank page will not be printed)		PRT	0 <0-1>	SYS	0: OFF 1: ON	1
9359	User interface	Printing resume after jam releasing		ALL	0 <0-1>	SYS	0: Auto resume 1: Resume by users	1
9394	Network	Single-page option for storing File and sending Email		ALL	0 <0-1>	SYS	0: Sets 1 page as 1 file 1: Makes a file based on the original	1
9629	Network	Attribute name for LDAP Role Based Access		ALL	eBMUser R <->	SYS		11
9739	Maintenance	Remote service Toner-end notification		ALL	0 <0-2>	SYS	0: RDMS toner empty notified immediately 1: RDMS toner empty notified once a day 2: RDMS toner empty not notified	1
9819	General	STAGE SSL		ALL	1 <0-1>	SYS	When remote scanning is performed, the SSL communication is carried out. 0: Disabled 1: Enabled(SSL communication)	1

Setting mode (08) <e-STUDIO352/353/452/453>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
9822	General	STAGE SSL port number	ALL	20443 <0-65535>	SYS	When remote scanning is performed using SSL communication, the SSL port number is set.	1
9828	General	Remote scanning mode	ALL	0 <0-1>	SYS	0: Batch 1: Sequential	1
9829	General	Department management limitation setting	ALL	0 <0-1>	SYS	Decide the default limitation setting when the new department code is created. 0: No limit 1: Limited	1
9847	Finisher	Hole punching setting	ALL	0 <0-1>	SYS	0: Invalid 1: Valid	1
9880	Maintenance	Total counter transmission date setting(2)	ALL	0 <0-31>	-	0 to 31	1
9881	General	Day of total counter data transmission	ALL	0 <0-127>	-	1 byte 00000000(0)-01111111(127) From the 2nd bit - Sunday, Monday, Tuesday, Wednesday, Thursday, Friday, Saturday	1
9882	General	Display mode of the used capacity on the e-Filing administrator page	ALL	1 <0-1>	SYS	0: All files search mode 1: Performance priority mode	1
9886	Scanner	Decimal point indication for Enhanced Scan Template	SCN	EUR: 0 UC: 1 JPN: 1 <0-1>	SYS	0: Comma 1: Period	1
9888	Scanner	Permission setting for changing the scan parameter when recalling an extension	SCN	0 <0-1>	SYS	0: Prohibited 1: Accepted	1
9889	General	Acceptance of data cloning using USB storage device	ALL	0 <0-1>	SYS	Acceptance of the usage of the USB data cloning tool 0: Accepted 1: Not accepted	2
9891	User interface	Warning message on the touch panel when PM (Periodic Maintenance) time has come	ALL	1 <0-1>	SYS	0: No warning notification 1: Warning notification	1
9946	General	E-mail transmission retry number	ALL	3 <0-14>	SYS	The number of times of E-mail communication retry for Scan to E-mail and Internet Fax is set.	1
9947	General	E-mail transmission retry interval	ALL	1 <0-15>	SYS	When E-mail transmission retry for Scan to E-mail and Internet Fax is performed, the interval is set. 0 min - 15 min	1

Setting mode (08) <e-STUDIO352/353/452/453>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
9960	Maintenance	Displaying equipment information	ALL	0 <0-2>	SYS	Equipment information stored in NVRAM is displayed. 0: Unset 1: e-STUDIO352/452 2: e-STUDIO353/453	2



## &lt;&lt;Pixel counter related code&gt;&gt;(Chap. 2.2.9)

Setting mode (08) <e-STUDIO352/353/452/453>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
1500	Pixel counter	Standard paper size setting	ALL	EUR: 0 UC: 1 JPN: 0 <0-1>	SYS	Selects the standard paper size to convert it into the pixel count (%). 0: A4 1: LT	1
1501	Pixel counter	Pixel counter all clearing	ALL	-	SYS	Clears all information related to the pixel counter.	3
1502	Pixel counter	Service technician reference counter clearing	ALL	-	SYS	Clears all information related to the service technician reference pixel counter.	3
1503	Pixel counter	Toner cartridge reference counter clearing	ALL	-	SYS	Clears all information related to the toner cartridge reference pixel counter.	3
1504	Pixel counter	Pixel counter display setting	ALL	1 <0-1>	SYS	Selects whether or not to display the pixel counter on the LCD screen. 0: Displayed 1: Not displayed	1
1505	Pixel counter	Displayed reference setting	ALL	0 <0-1>	SYS	Selects the reference when displaying the pixel counter on the LCD screen. 0: Service technician reference 1: Toner cartridge reference	1
1506	Pixel counter	Toner empty determination counter setting	ALL	0 <0-1>	SYS	Selects the counter to determine toner empty. 0: Output pages 1: Pixel counter	1
1507	Pixel counter	Threshold setting for toner empty determination (Output pages)	ALL	400 <0-999>	SYS	Sets the number of output pages to determine toner empty. This setting is valid when "0" is set at 08-1506.	1
1508	Pixel counter	Threshold setting for toner empty determination (Pixel counter)	ALL	17550 <0-60000>	SYS	Sets the number of output pages to determine toner empty. This setting is valid when "1" is set at 08-1506.	1
1509	Pixel counter	Pixel counter clear flag/Service technician reference	ALL	0 <0-1>	SYS	Becomes "1" when 08-1502 is performed.	2
1510	Pixel counter	Service technician reference cleared date	ALL	-	SYS	Displays the date on which 08-1502 was performed.	2
1514	Pixel counter	Toner cartridge reference cleared date	ALL	-	SYS	Displays the date on which 08-1503 was performed.	2
1518	Pixel counter	Toner cartridge reference count started date	ALL	-	SYS	Displays the date on which 08-1503 was performed.	2

Setting mode (08) <e-STUDIO352/353/452/453>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
1548	Pixel counter	Number of output pages (Service technician reference)	PPC	<8 digits>	SYS	Counts the number of output pages converted to the standard paper size in the copy function, black mode and service technician reference. [Unit. page]	2
1550	Pixel counter	Number of output pages (Service technician reference)	PRT	<8 digits>	SYS	Counts the number of output pages converted to the standard paper size in the printer function and service technician reference. [Unit. page]	2
1551	Pixel counter	Number of output pages (Service technician reference)	FAX	<8 digits>	SYS	Counts the number of output pages converted to the standard paper size in the FAX function and service technician reference. [Unit. page]	2
1553	Pixel counter	Number of output pages (Toner cartridge reference)	PPC	<8 digits>	SYS	Counts the number of output pages converted to the standard paper size in the copy function and toner cartridge reference. [Unit. page]	2
1555	Pixel counter	Number of output pages/ black (Toner cartridge reference)	PRT	<8 digits>	SYS	Counts the number of output pages converted to the standard paper size in the printer function and toner cartridge reference. [Unit. page]	2
1556	Pixel counter	Number of output pages (Toner cartridge reference)	FAX	<8 digits>	SYS	Counts the number of output pages converted to the standard paper size in the FAX function and toner cartridge reference. [Unit. page]	2
1566	Pixel counter	Toner cartridge replacement counter	ALL	<3 digits>	SYS	Counts the number of time of the toner cartridge replacement.	2
1592	Pixel counter	Average pixel count (Service technician reference)	PPC	0 <0-10000>	SYS	Displays the average pixel count in the copy function and service technician reference. [Unit: 0.01%]	2
1593	Pixel counter	Average pixel count (Service technician reference)	PRT	0 <0-10000>	SYS	Displays the average pixel count in the printer function and service technician reference. [Unit: 0.01%]	2

Setting mode (08) <e-STUDIO352/353/452/453>							
Code	Classification	Items	Function	Default <Acceptable value>	RAM	Contents	Procedure
1594	Pixel counter	Average pixel count (Service technician reference)	FAX	0 <0-10000>	SYS	Displays the average pixel count in the FAX function and service technician reference. [Unit: 0.01%]	2
1595	Pixel counter	Average pixel count (Service technician reference)	PPC/ PRT/ FAX	0 <0-10000>	SYS	Displays the average pixel count in the copy/printer/FAX function and service technician reference. [Unit: 0.01%]	2
1606	Pixel counter	Latest pixel count (Service technician reference)	PPC	0 <0-10000>	SYS	Displays the latest pixel count in the copy function, black mode and service technician reference. [Unit: 0.01%]	2
1607	Pixel counter	Latest pixel count (Service technician reference)	PRT	0 <0-10000>	SYS	Displays the latest pixel count in the printer function and service technician reference. [Unit: 0.01%]	2
1608	Pixel counter	Latest pixel count (Service technician reference)	FAX	0 <0-10000>	SYS	Displays the latest pixel count in the FAX function and service technician reference. [Unit: 0.01%]	2
1613	Pixel counter	Average pixel count (Toner cartridge reference)	PPC	0 <0-10000>	SYS	Displays the average pixel count in the printer function and toner cartridge reference. [Unit: 0.01%]	2
1619	Pixel counter	Average pixel count (Toner cartridge reference)	PRT	0 <0-10000>	SYS	Displays the average pixel count in the printer function, and toner cartridge reference. [Unit: 0.01%]	2
1624	Pixel counter	Average pixel count (Toner cartridge reference)	PPC/ PRT/ FAX	0 <0-10000>	SYS	Displays the average pixel count in the copy/printer/FAX function and toner cartridge reference. [Unit: 0.01%]	2
1625	Pixel counter	Average pixel count (Toner cartridge reference)	FAX	0 <0-10000>	SYS	Displays the average pixel count in the FAX function and toner cartridge reference. [Unit: 0.01%]	2
1634	Pixel counter	Latest pixel count (Toner cartridge reference)	FAX	0 <0-10000>	SYS	Displays the latest pixel count in the FAX function and toner cartridge reference. [Unit: 0.01%]	2
1639	Pixel counter	Latest pixel count (Toner cartridge reference)	PPC	0 <0-10000>	SYS	Displays the latest pixel count in the copy function and toner cartridge reference. [Unit: 0.01%]	2

Setting mode (08) <e-STUDIO352/353/452/453>								
Code	Classifi- cation	Items		Func- tion	Default <Accept- able value>	RAM	Contents	Pro- cedur e
1640	Pixel counter	Latest pixel count (Toner cartridge reference)		PRT	0 <0- 10000>	SYS	Displays the latest pixel count in the printer function and toner car- tridge reference. [Unit: 0.01%]	2
1649-0	Pixel counter	Pixel count distribution	0-5%	PPC	<8 digits>	SYS	The pixel count data are divided into 10 ranges. The number of output pages in each range is displayed. In this code, the distribu- tions in the copy func- tion are displayed. [Unit: page]	14
1649-1			5.1-10%	PPC	<8 digits>	SYS		14
1649-2			10.1-15%	PPC	<8 digits>	SYS		14
1649-3			15.1-20%	PPC	<8 digits>	SYS		14
1649-4			20.1-25%	PPC	<8 digits>	SYS		14
1649-5			25.1-30%	PPC	<8 digits>	SYS		14
1649-6			30.1-40%	PPC	<8 digits>	SYS		14
1649-7			40.1-60%	PPC	<8 digits>	SYS		14
1649-8			60.1-80%	PPC	<8 digits>	SYS		14
1649-9			80.1- 100%	PPC	<8 digits>	SYS		14
1650-0	Pixel counter	Pixel count distribution	0-5%	PRT	<8 digits>	SYS	The pixel count data are divided into 10 ranges. The number of output pages in each range is displayed. In this code, the distribu- tions in the printer func- tion are displayed. [Unit: page]	14
1650-1			5.1-10%	PRT	<8 digits>	SYS		14
1650-2			10.1-15%	PRT	<8 digits>	SYS		14
1650-3			15.1-20%	PRT	<8 digits>	SYS		14
1650-4			20.1-25%	PRT	<8 digits>	SYS		14
1650-5			25.1-30%	PRT	<8 digits>	SYS		14
1650-6			30.1-40%	PRT	<8 digits>	SYS		14
1650-7			40.1-60%	PRT	<8 digits>	SYS		14
1650-8			60.1-80%	PRT	<8 digits>	SYS		14
1650-9			80.1- 100%	PRT	<8 digits>	SYS		14
1651-0	Pixel counter	Pixel count distribution	0-5%	FAX	<8 digits>	SYS	The pixel count data are divided into 10 ranges. The number of output pages in each range is displayed. In this code, the distribu- tions in the FAX func- tion are displayed. [Unit: page]	14
1651-1			5.1-10%	FAX	<8 digits>	SYS		14
1651-2			10.1-15%	FAX	<8 digits>	SYS		14
1651-3			15.1-20%	FAX	<8 digits>	SYS		14
1651-4			20.1-25%	FAX	<8 digits>	SYS		14
1651-5			25.1-30%	FAX	<8 digits>	SYS		14
1651-6			30.1-40%	FAX	<8 digits>	SYS		14
1651-7			40.1-60%	FAX	<8 digits>	SYS		14
1651-8			60.1-80%	FAX	<8 digits>	SYS		14
1651-9			80.1- 100%	FAX	<8 digits>	SYS		14

## &lt;&lt;PM support mode related code&gt;&gt;

- The management items at PM support mode can also be operated at setting mode (08).  
The following items are displayed or set by using sub-codes at PM management setting in the table below.

## &lt;Sub-codes&gt;

- 0: Present number of output pages  
- Means the present number of output pages.
- 1: Recommended number of output pages for replacement  
- Means the recommended number of output pages for replacement.
- 2: Number of output pages at the last replacement  
- Means the number of output pages at the last replacement.
- 3: Present driving counts  
- Means the present drive counts (1 count = 2 seconds).
- 4: Recommended driving counts to be replaced  
- Means the recommended drive counts for replacement (1 count = 2 seconds).
- 5: Driving counts at the last replacement  
- Means the drive counts at the last replacement.
- 6: Present output pages for control  
- Means the present number of output pages for controlling.
- 7: Present driving counts for control  
- Means the present drive counts for controlling (1 count = 2 seconds).
- 8: Number of times replaced  
- Counts up when clearing the counter of each unit in the PM Support Mode Screen.

**Notes:**

- Sub-code 3 is equivalent to sub-code 7.
- When the value of sub-code 3 is changed, the value of sub-code 7 is also updated and vice versa.
- When "0" is set at one of sub-codes 0, 3, 6 and 7, the rest of them are automatically updated to "0".

Items	PM management setting <Procedure 4> *Indicated in 8 digits	Date of previous replacement <Procedure 2>	Remarks
Photoconductive drum	1150-0 to 8	1151	<Default values of code 1150 (e-STUDIO352/353/452/453)> Sub-codes 0, 2, 3, 5, 6, 7, 8: 0/0 Sub-code 1: 120000/150000 Sub-code 4: 220000/220000
Drum cleaning blade	1158-0 to 8	1159	<Default values of code 1158 (e-STUDIO352/353/452/453)> Sub-codes 0, 2, 3, 5, 6, 7, 8: 0/0 Sub-code 1: 120000/150000 Sub-code 4: 220000/220000
Drum separation finger	1172-0 to 8	1173	<Default values of code 1172 (e-STUDIO352/353/452/453)> Sub-codes 0, 2, 3, 5, 6, 7, 8: 0/0 Sub-code 1: 120000/150000 Sub-code 4: 220000/220000
Main charger grid	1174-0 to 8	1175	<Default values of code 1174 (e-STUDIO352/353/452/453)> Sub-codes 0, 2, 3, 5, 6, 7, 8: 0/0 Sub-code 1: 120000/150000 Sub-code 4: 220000/220000

Items	PM management setting <Procedure 4> *Indicated in 8 digits	Date of previous replacement <Procedure 2>	Remarks
Main charger wire	1182-0 to 8	1183	<Default values of code 1182 (e-STUDIO352/353/452/453)> Sub-codes 0, 2, 3, 5, 6, 7, 8: 0/0 Sub-code 1: 120000/150000 Sub-code 4: 220000/220000
Ozone filter	1198-0 to 8	1199	<Default values of code 1198 (e-STUDIO352/353/452/453)> Sub-codes 0, 2, 3, 5, 6, 7, 8: 0/0 Sub-code 1: 120000/150000 Sub-code 4: 220000/220000
Developer material	1200-0 to 8	1201	<Default values of code 1200 (e-STUDIO352/353/452/453)> Sub-codes 0, 2, 3, 5, 6, 7, 8: 0/0 Sub-code 1: 120000/150000 Sub-code 4: 220000/220000
Transfer charger wire	1214-0 to 8	1215	<Default values of code 1214 (e-STUDIO352/353/452/453)> Sub-codes 0, 2, 3, 5, 6, 7, 8: 0/0 Sub-code 1: 120000/150000 Sub-code 4: 220000/220000
Separation charger wire	1224-0 to 8	1225	<Default values of code 1224 (e-STUDIO352/353/452/453)> Sub-codes 0, 2, 3, 5, 6, 7, 8: 0/0 Sub-code 1: 120000/150000 Sub-code 4: 220000/220000
Fuser roller	1246-0 to 8	1247	<Default values of code 1246 (e-STUDIO352/353/452/453)> Sub-codes 0, 2, 3, 5, 6, 7, 8: 0/0 Sub-code 1: 120000/150000 Sub-code 4: 220000/220000
Pressure roller	1250-0 to 8	1251	<Default values of code 1250 (e-STUDIO352/353/452/453)> Sub-codes 0, 2, 3, 5, 6, 7, 8: 0/0 Sub-code 1: 120000/150000 Sub-code 4: 220000/220000
Cleaning roller	1266-0 to 8	1267	<Default values of code 1266 (e-STUDIO352/353/452/453)> Sub-codes 0, 2, 3, 5, 6, 7, 8: 0/0 Sub-code 1: 120000/150000 Sub-code 4: 220000/220000
Fuser roller separation finger	1268-0 to 8	1269	<Default values of code 1268 (e-STUDIO352/353/452/453)> Sub-codes 0, 2, 3, 5, 6, 7, 8: 0/0 Sub-code 1: 120000/150000 Sub-code 4: 220000/220000
Pickup roller (RADF)	1282-0, 1, 2, 8	1283	<Default values of code 1282 (e-STUDIO352/353/452/453)> Sub-codes 0, 2, 8: 0/0 Sub-code 1: 120000/120000
Feed roller (RADF)	1284-0,1,2,8	1285	<Default values of code 1284 (e-STUDIO352/353/452/453)> Sub-codes 0, 2, 8: 0/0 Sub-code 1: 120000/120000
Separation roller (RADF)	1286-0, 1, 2, 8	1287	<Default values of code 1286 (e-STUDIO352/353/452/453)> Sub-codes 0, 2, 8: 0/0 Sub-code 1: 120000/120000

Items	PM management setting <Procedure 4> *Indicated in 8 digits	Date of previous replacement <Procedure 2>	Remarks
Pickup roller (Upper drawer)	1290-0, 1, 2, 8	1291	<Default values of code 1290 (e-STUDIO352/353/452/453)> Sub-codes 0, 2, 8: 0/0 Sub-code 1: 80000/80000
Pickup roller (Lower drawer)	1292-0,1,2,8	1293	<Default values of code 1292 (e-STUDIO352/353/452/453)> Sub-codes 0, 2, 8: 0/0 Sub-code 1: 80000/80000
Pickup roller (LCF)	1294-0,1,2,8	1295	<Default values of code 1294 (e-STUDIO352/353/452/453)> Sub-codes 0, 2, 8: 0/0 Sub-code 1: 160000/160000
Feed roller (Upper drawer)	1298-0,1,2,8	1299	<Default values of code 1298 (e-STUDIO352/353/452/453)> Sub-codes 0, 2, 8: 0/0 Sub-code 1: 80000/80000
Feed roller (Lower drawer)	1300-0,1,2,8	1301	<Default values of code 1300 (e-STUDIO352/353/452/453)> Sub-codes 0, 2, 8: 0/0 Sub-code 1: 80000/80000
Feed roller (LCF)	1302-0, 1, 2, 8	1303	<Default values of code 1302 (e-STUDIO352/353/452/453)> Sub-codes 0, 2, 8: 0/0 Sub-code 1: 160000/160000
Separation roller (Upper drawer)	1306-0,1,2,8	1307	<Default values of code 1306 (e-STUDIO352/353/452/453)> Sub-codes 0, 2, 8: 0/0 Sub-code 1: 80000/80000
Separation roller (Lower drawer)	1308-0,1,2,8	1309	<Default values of code 1308 (e-STUDIO352/353/452/453)> Sub-codes 0, 2, 8: 0/0 Sub-code 1: 80000/80000
Separation roller (LCF)	1310-0,1,2,8	1311	<Default values of code 1310 (e-STUDIO352/353/452/453)> Sub-codes 0, 2, 8: 0/0 Sub-code 1: 160000/160000
Separation roller (PFP upper drawer)	1312-0,1,2,8	1313	<Default values of code 1312 (e-STUDIO352/353/452/453)> Sub-codes 0, 2, 8: 0/0 Sub-code 1: 80000/80000
Separation roller (PFP lower drawer)	1314-0,1,2,8	1315	<Default values of code 1314 (e-STUDIO352/353/452/453)> Sub-codes 0, 2, 8: 0/0 Sub-code 1: 80000/80000
Separation roller (Bypass unit)	1316-0,1,2,8	1317	<Default values of code 1316 (e-STUDIO352/353/452/453)> Sub-codes 0, 2, 8: 0/0 Sub-code 1: 80000/80000
Feed roller (PFP upper drawer)	1320-0,1,2,8	1321	<Default values of code 1320 (e-STUDIO352/353/452/453)> Sub-codes 0, 2, 8: 0/0 Sub-code 1: 80000/80000
Feed roller (PFP lower drawer)	1322-0,1,2,8	1323	<Default values of code 1322 (e-STUDIO352/353/452/453)> Sub-codes 0, 2, 8: 0/0 Sub-code 1: 80000/80000

Items	PM management setting <Procedure 4> *Indicated in 8 digits	Date of previous replacement <Procedure 2>	Remarks
Feed roller (Bypass unit)	1324-0,1,2,8	1325	<Default values of code 1324 (e-STUDIO352/353/452/453)> Sub-codes 0, 2, 8: 0/0 Sub-code 1: 80000/80000
Pickup roller (PFP upper drawer)	1328-0,1,2,8	1329	<Default values of code 1328 (e-STUDIO352/353/452/453)> Sub-codes 0, 2, 8: 0/0 Sub-code 1: 80000/80000
Pickup roller (PFP lower drawer)	1330-0,1,2,8	1331	<Default values of code 1330 (e-STUDIO352/353/452/453)> Sub-codes 0, 2, 8: 0/0 Sub-code 1: 80000/80000
Pickup roller (Bypass unit)	1332-0, 1, 2, 8	1333	<Default values of code 1332 (e-STUDIO352/353/452/453)> Sub-codes 0, 2, 8: 0/0 Sub-code 1: 80000/80000

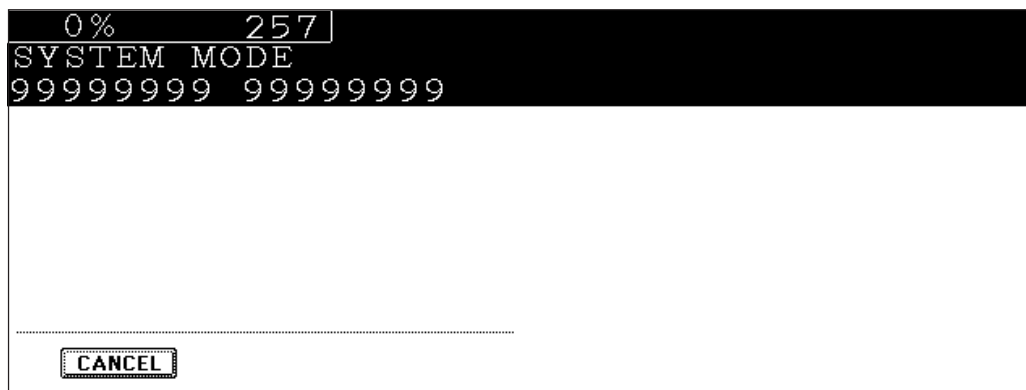


### <<Procedure to copy the total counter value (08-257)>>

- (1) Turn ON the power while [0] and [8] are pressed simultaneously.
- (2) Key in the code "257" and press the [START] button (the following is displayed).

**Note:**

Before performing the following operations, note the current counter values.

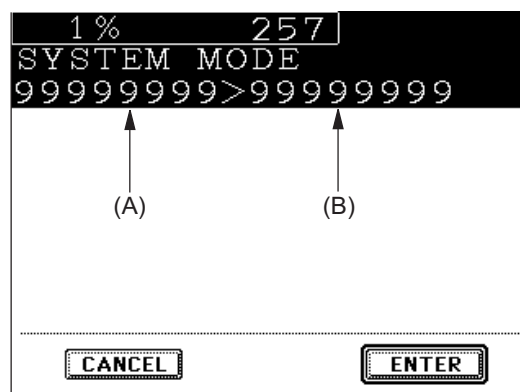


- (3) Key in the value "1" or "2" and press the [START] button.  
The value entered is displayed on the left of the "%", and the [ENTER] button is displayed.

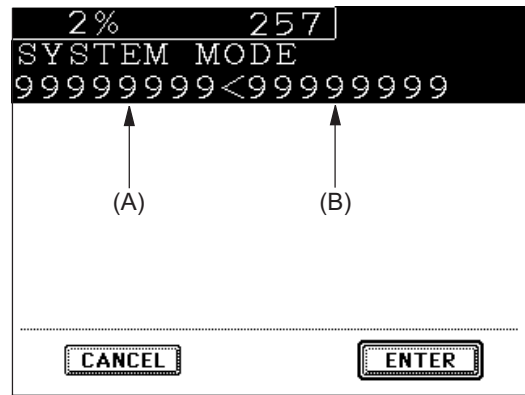
**Note:**

The value can be erased by pressing the [CLEAR] button to change as long as the [START] button is not pressed. (The value on the left of the "%" is reset to "0" by pressing the [CLEAR] button.)

- Key in "1" to copy the value of the total counter (LGC board) (A) onto the value of the backup counter (SYS board) (B).



- Key in “2” to copy the value of the backup counter (SYS board) (B) onto the value of the total counter (LGC board) (A).



(4) Press the [ENTER] button to complete overwriting of the counter value.

**Note:**

The screen returns to the code entry screen without copying (overwriting) the value when the [CANCEL] button is pressed.

## 2.2.9 Pixel counter

### 1) Outline

Pixel counter is a function that counts the number of dots emitted by the laser and converts it into the print ratio (%) per standard paper size. This "Print ratio (%) per standard paper size" is called Pixel count (%).

This function enables you to know how each user uses the equipment and to grasp the tendency of toner consumption (number of output pages per cartridge).

## 2) Factors affecting toner consumption

Standard number of output pages per cartridge shows the average number of output pages under the condition that the data of print ratio 6% is printed on the standard paper size (A4/LT) at a normal temperature and humidity.

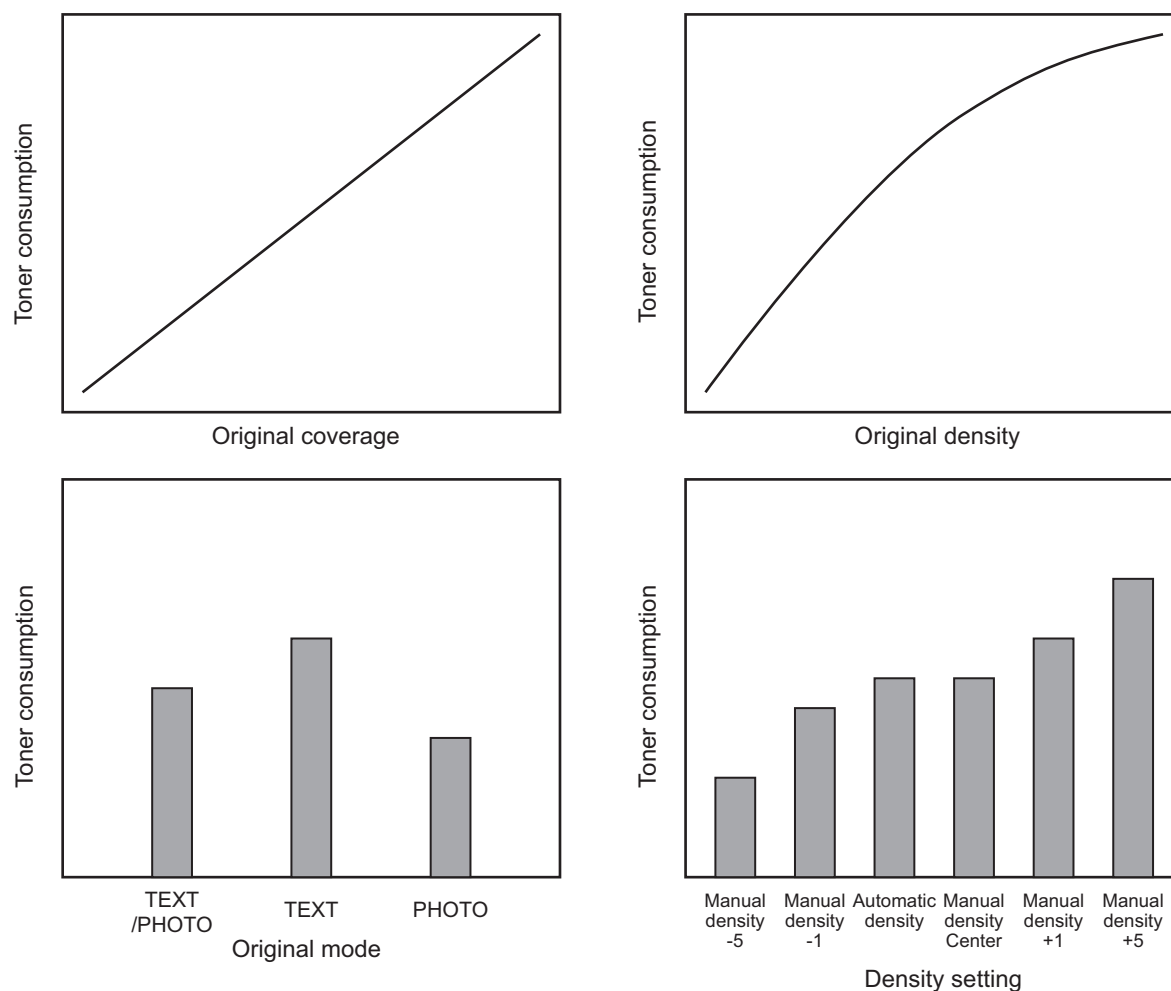
However, users do not always print under the above condition. As for the type of original, copy/print mode and environment, each user has different tendency, and as a result, the number of output pages per cartridge becomes different depending on the user.

The major factors affecting toner consumption are as follows:

- Original/Data coverage
- Original/Data density
- Original/Print mode
- Density setting

Also there are other factors in addition to the above, such as environment, individual difference of equipment, difference in lot quality of materials, toner density and drum surface potential.

The general relations between the 4 factors mentioned in the previous page and toner consumption per output page in the Copier Function are as follows:



**Fig. 2-4 Factors affecting toner consumption and the tendency**

### 3) Details of pixel counter

- Toner cartridge reference and service technician reference  
The pixel counter function in this equipment has 2 references, toner cartridge reference and service technician reference.

#### **Toner cartridge reference**

This is a system that accumulates data between the installation of a new toner cartridge and next installation. The installation of new toner cartridge is judged when the total number of pixel count or output pages after the detection of toner empty has exceeded the threshold. The threshold to be used is selectable in the setting mode (08-1506) between the pixel count and output pages (0: Output pages 1: Pixel counter). The threshold of pixel count is set in the setting mode (08-1508) and that of output pages is set in the setting mode (08-1507). When the new toner cartridge is judged as installed, the data related with the previous cartridge is cleared and replaced with the data after the installation of new cartridge. Clearing of the counter of the toner cartridge reference is performed in the setting mode (08-1503).

#### **Service technician reference**

This is a system that accumulates data between clearing the counter of the service technician reference by service technician and subsequently clearing the same counter. Clearing of the counter of the service technician reference is performed in the setting mode (08-1502).

- Print count (number of output pages)  
The number of output pages shown at the pixel counter is counted after converting all paper sizes to the standard paper size (A4/LT). Printing on other than the standard size is converted by paper area ratio. The standard paper size is set in the setting mode (08-1500). The examples of conversion are as follows:

#### **Ex.)**

1. "1" is added to the print count when printing on A4/LT size.
2. "2" is added to the print count when printing on A3/LD size. (area ratio to A4/LT: 200%)
3. "1.49" is added to the print count when printing on B4 size. (area ratio to A4: 149%)
4. "1.27" is added to the print count when printing on LG size. (area ratio to LT: 127%)

- Pixel count (%)  
Pixel count (%) shows the ratio of laser emitting pixels to all pixels on standard paper. The examples of pixel count are as follows:

#### **Note:**

In the following examples, 'solid copy' is considered to be 100%. But since the image has 4 margins, it never becomes 100% actually.

#### **Ex.)**

1. Printing 5 pages on A4/LT size with solid copy (Laser emits to all pixels.)  
→ Pixel count: 100%, Print count: 5
2. Printing 5 pages on A4/LT size with blank copy (Laser never emits.)  
→ Pixel count: 0%, Print count: 5
3. Printing 2 pages on A4/LT size with solid copy (Laser emits to all pixels.)  
Printing 2 pages on A4/LT size with blank copy (Laser never emits.)  
→ Pixel count: 50%, Print count: 4

4. Printing 3 pages on A4/LT size with 6% of laser emission

Printing 1 page on A4/LT size with 2% of laser emission

→ Pixel count: 5%, Print count: 4

5. Printing 2 pages on A3/LD size with solid copy (Laser emits to all pixels.)

→ Pixel count: 100%, Print count: 4

6. Printing 2 pages on A3/LD size with 6% of laser emission

→ Pixel count: 6%, Print count: 4

- Average pixel count (%) and latest pixel count (%)

There are 2 types of the value calculated as the pixel count, average pixel count (%) and latest pixel count (%).

Average pixel count (%)

The average value of all pixel count data after each reference data is cleared is calculated and displayed.

Latest pixel count (%)

The value is displayed for printing just before the pixel counter is confirmed.

- Type of calculated data

Since this is multifunctional, the data of pixel count is calculated for each function. The following list is the information that can be confirmed by LCD screen. But actually, more information can be confirmed by the setting mode (08). See after-mentioned (5)-(c) for details.

○: With data

—: Without data

	Toner cartridge reference	Service technician reference
Copier function	○	○
Printer function	○	○
FAX function	○	○
Total	○	○

**Table 2-201 Type of calculated data**

- Setting related with the pixel counter function

**(f-1) Standard paper size setting**

The standard paper size (A4 or LT) to convert it into the pixel count is selected (08-1500).

**(f-2) Pixel counter display setting**

Whether or not to display the pixel counter on the LCD screen is selected (08-1504).

**(f-3) Display reference setting**

The reference when displaying the pixel counter on the LCD screen (toner cartridge reference or service technician reference) is selected (08-1505).

**(f-4) Determination counter of toner empty**

This is the counter to determine the replacement of new toner cartridge after the toner empty is detected.

After the toner empty is detected by the auto-toner sensor, this counter checks if toner empty is not detected one more time while the specified number of pixel count or output pages is counted.

#### (f-5) Pixel counter clearing

There are 3 types for the pixel count clear as follows:

08-1501: All information related to the pixel count is cleared.

08-1502: All information related to the service technician reference pixel count is cleared.

08-1503: All information related to the toner cartridge reference pixel count is cleared.

#### 4) Relation between pixel count and toner consumption

The user's printing out the image with large coverage or high density may cause the large value of pixel count. And the setting that toner consumption becomes high in the original mode or density setting may cause it as well. In this case, the replacement cycle of toner cartridge is faster than the standard number of output pages. Therefore, this trend needs to be grasped for the service. The relation between pixel count and number of output pages per cartridge is as follows:

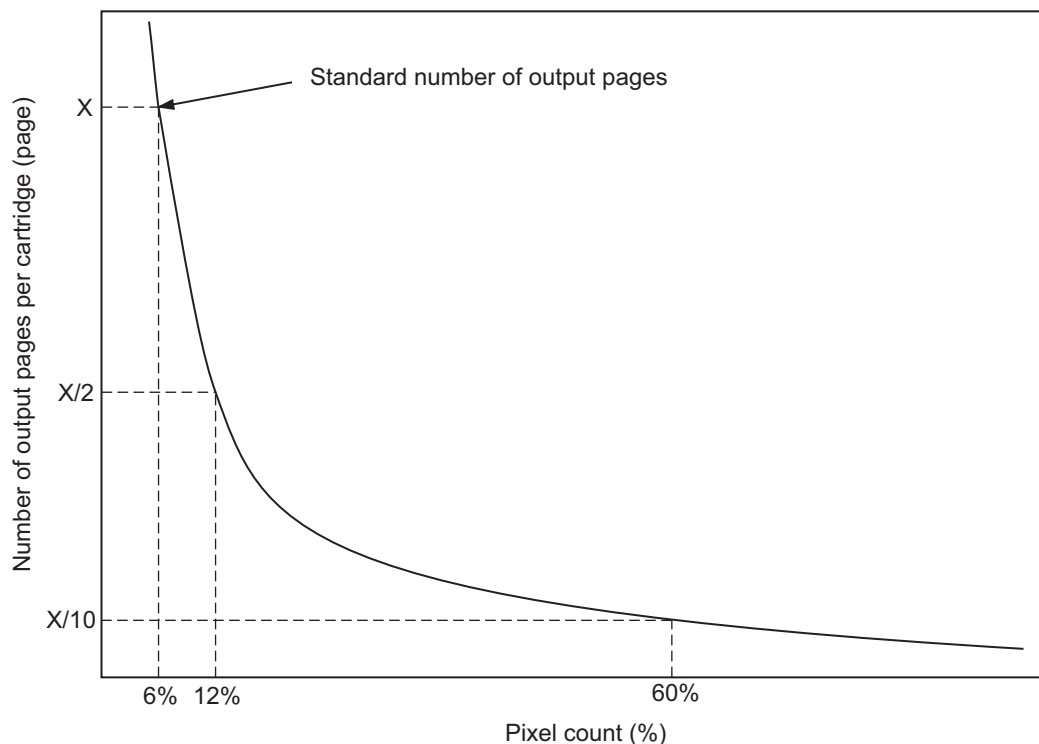


Fig. 2-5 Pixel count and number of output pages per cartridge

5) Pixel counter confirmation

- Display on LCD screen

Whether or not to display the pixel counter on the LCD screen is selected (0: Displayed, 1: Not displayed) in the setting mode (08-1504), and whether or not to display it at the service technician reference or toner cartridge reference is selected (0: Service technician reference, 1: Toner cartridge reference) in the setting mode (08-1505).

The following screen is displayed when the buttons, [USER FUNCTIONS], [COUNTER] and [PIXEL COUNTER] are pressed in this order after "Displayed" is selected with the code above and the power is, as usual, turned ON.

The following screen is displayed when the toner cartridge reference is selected in the setting mode (08-1505).

	Copy	Printer	Fax	Total
Print Count [LT/A4]	180	61	0	241
Average Pixel Count [%]	2.76	2.80	0.00	2.76
Latest Pixel Count [%]	3.08	1.10	0.00	1.10

Fig. 2-6 Information screen of toner cartridge reference

The following screen is displayed when the service technician reference is selected in the setting mode (08-1505).

	Copy	Printer	Fax	Total
Print Count [LT/A4]	180	61	0	241
Average Pixel Count [%]	2.76	2.80	0.00	2.76
Latest Pixel Count [%]	3.08	1.10	0.00	1.10

Fig. 2-7 Information screen of service technician reference



- Data list printing  
The data for pixel counter can be printed in the list print mode (9S).  
9S-104: The data of the toner cartridge reference is printed.  
9S-105: The data of service technician reference is printed.

PIXEL COUNTER CODE LIST						
2003.4.23 09:55						
TONERCARTRIDGE						
No	DATE		PPC	PRN	FAX	TOTAL
0	20030423	Print Count [LT/A4]	12345	23456	12345	45678
1	20030423	Average Pixel Count [%]	12345	23456	12345	45678
2	20030423	Latest Pixel Count [%]	12345	23456	12345	45678

**Fig. 2-8 Data list of toner cartridge reference**

PIXEL COUNTER CODE LIST						
2003.4.23 09:55						
SERVICEMAN						
No	DATE		PPC	PRN	FAX	TOTAL
0	20030423	Print Count [LT/A4]	12345	23456	12345	45678
1	20030423	Average Pixel Count [%]	12345	23456	12345	45678
2	20030423	Latest Pixel Count [%]	12345	23456	12345	45678

**Fig. 2-9 Data list of service technician reference**

- Display in the setting mode (08)  
Information of pixel count can be also checked in the setting mode (08).  
For details, see P. 2-82 "2.2.7 Setting mode (08) (e-STUDIO350/450)"/  
 P. 2-144 "2.2.8 Setting mode (08) (e-STUDIO352/353/452/453)".

### (c-1) Print count, pixel count

		Toner cartridge reference	Service technician reference
Copier function	Print count (page)	1553	1548
	Average pixel count (%)	1613	1592
	Latest pixel count (%)	1639	1606
Printer function	Print count (page)	1555	1550
	Average pixel count (%)	1619	1593
	Latest pixel count (%)	1640	1607
FAX function	Print count (page)	1556	1551
	Average pixel count (%)	1625	1594
	Latest pixel count (%)	1634	1608
Total	Average pixel count (%)	1624	1595

**Table 2-202 Pixel count code table**

### (c-2) Pixel count distribution

	Pixel count distribution (page)
Copier function	1649
Printer function	1650
FAX function	1651

**Table 2-203 Pixel count code table**

### Note:

By entering the sub code at the above code, the pixel count distribution can be displayed dividing into 10 ranges. The sub codes are as follows.

0: 0 - 5% 1: 5.1 - 10% 2: 10.1 - 15% 3: 15.1 - 20% 4: 20.1 - 25%

5: 25.1 - 30% 6: 30.1 - 40% 7: 40.1 - 60% 8: 60.1 - 80% 9: 80.1 - 100%

### (c-3) Other information

Toner cartridge replacement counter.

The toner cartridge replacement count is displayed. (08-1566)

Toner cartridge reference count started date

The toner cartridge reference count started date is displayed. (05-1518)

Service technician reference cleared date

The service technician reference cleared date is displayed. (08-1510)

The date (08-1502 was performed) is stored.

Toner cartridge reference cleared date

The toner cartridge reference cleared date is displayed.

The date (08-1503 was performed) is stored.

## 2.2.10 Classification List of Adjustment Mode (05) / Setting Mode (08) (e-STUDIO350/450)

Classification	e-STUDIO350/450	
	Adjustment Mode (05)	Setting Mode (08)
User interface		[Date/Time] 200, 638, 640 [Timer] 204, 205, 206, 260 [Screen] 207, 602, 1132 [File] 209, 219, 264, 288 [Language] 220, 221 [Administrator] 263 [Scanning] 265, 266, 273, 274 [Filing] 267, 270, 950, 976, 985 [HDD] 271 [E-mail] 272, 1097, 1098 [default setting] 276, 281, 283, 284, 285, 286, 331, 480, 503, 550, 603, 604, 607, 618, 642, 986, 989, 1135 [Raw printing] 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 973, 978, 979 [Copy volume] 300 [Original counter] 302 [Custom Mode] 508 [Energy saving] 601 [AMS] 605 [Sound] 610, 969, 970 [Book duplexing] 611 [Summer time] 612 [Paper size] 613 [Department management] 620, 621, 622, 623, 624, 617, 672

Classification	e-STUDIO350/450	
	Adjustment Mode (05)	Setting Mode (08)
User interface		[Sorting] 627, 634, 641, 649 [Original direction] 628 [Image shift] 636 [Edit copying] 645, 646 [Box printing] 647, 953, 954 [X in 1] 650 [Annotation] 651, 657 [Automatic transfer] 660, 661 [Indicator] 671 [Priority drawer] 689 [Media type] 697 [Offsetting between jobs] 682 [Job build] 1130, 1131
Scanner	[Position] 305, 306 [Distortion] 308 [Reproduction ratio] 340 [Carriage position] 359	
Image	[Margin] 430, 431, 432, 433, 434 -0 to 1, 435, 436, 437, 438 [Image density] 501, 503, 504, 505, 506, 507, 508, 509, 510, 512, 514, 515, 710, 714, 715, 719, 720, 724, 725, 729, 845, 846, 847, 850, 851, 852, 855, 856, 857, 860, 861, 862, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942 [Range correction] 532, 533, 534, 570, 571, 572, 693, 694, 695, 825, 826, 827, 830, 831, 832, 835, 836, 837, 913, 914, 915, 916, 917, 918, 919, 920, 921 [Gamma slope] 593, 594, 595, 943, 944, 945 [Sharpness] 620, 621, 622, 865-0 to 2, 866-0 to 2, 867-0 to 2, 922, 923, 924 [Smudged/Faint text] 653, 654, 655, 928 [Printer density] 672-0 to 4, 676-0 to 4 [Binarizing] 700, 701, 702	[Error diffusion / Dither] 502, 509

Classification	e-STUDIO350/450	
	Adjustment Mode (05)	Setting Mode (08)
Drive	[Main motor] 421, 422 [Exit motor] 424, 425	
Paper feeding	[Aligning amount] 448-0 to 2, 449-0 to 2, 450-0 to 2, 452-0 to 2, 455-0 to 2, 457, 458-0 to 2, 460-0 to 2, 461-0 to 2, 462-0 to 3, 463-0 to 2, 469-0 to 5, 470-0 to 2, 471-0 to 2, 472-0 to 2, 473, 474-0 to 2 [Paper pushing amount] 466-0 to 7, 467	[paper dimension] 210, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 471 [Paper feeding] 254, 255, 481, 619, 658, 659, 988 [Retry] 463-0 to 1, 464-0 to 1, 465-0 to 1, 466-0 to 1, 467-0 to 1, 468-0 to 1, 482, 1390, 1391, 1392, 1393, 1394, 1395, 1396, 1397, 1398, 1399, 1400, 1401 [Paper size] 216, 217, 224, 225, 226, 227, 228, 247, 248, 249, 256 [Blank copying prevention] 625
Laser	[Laser power] 286 [Polygonal motor] 401, 405 [Write starting] 410, 411, 440, 441, 442, 443, 444, 445, 498-0 to 1 [Sideways deviation] 497-0 to 5	[Polygonal motor] 398, 399, 478, 479, 483, 484, 485, 486, 488, 489, 490 [Power correction] 872, 873, 875, 876, 877
Developer	[Auto-toner] 200, 201	[Auto-toner] 414, 455, 840 [Black band] 419
High-voltage transformer	[Main charger bias] 210 [Developer bias] 205 [Transfer bias] 221 [Separation bias] 231	[Transfer bias] 491, 492, 493, 868, 869 [Main charger bias] 826, 864, 865, 866, 867 [Transfer timing] 841 [Developer bias] 859, 860, 861, 862, 863
Fuser		[Status counter] 400 [Temperature] 409, 410, 411, 412, 413, 437, 438, 855 [Pre-running] 417, 420, 439, 440, 441, 526, 856
Fan		[Separation fan] 469 [Middle fan] 472
RADF	[Aligning amount] 354, 355 [Sensors/EEPROM] 356, 367, 368 [Transporting] 357, 358, 365, 366	[Switchback] 462

Classification	e-STUDIO350/450	
	Adjustment Mode (05)	Setting Mode (08)
Finisher	[Folding / Binding position] 468-0 to 2	[Tray reset] 648 [Cascade] 652, 653
Network		[NIC] 1001, 1002, 1003, 1004, 1120 [IP address] 1005, 1006, 1007, 1008, 1009, 1010 [IPX] 1011, 1099 [Frame type] 1012 [NCP] 1013 [Apple Talk] 1014, 1015 [LDAP] 1016, 1138, 1139, 1486 [DNS] 1017, 1018, 1019 [DDNS] 1020 [SLP] 1021 [NetBios] 1023 [WINS] 1024, 1025 [Bindery] 1026 [NDS] 1027 [Directory] 1028, 1029 [HTTP] 1030, 1031, 1032, 1033, 1034, 1035 [SMTP] 1037, 1038, 1039, 1040, 1041, 1042, 1100, 1101, 1102, 1111 [Offramp] 1043, 1044, 1045 [POP3] 1046, 1047, 1048, 1049, 1050, 1051, 1052 [FTP] 1053, 1054, 1055, 1056, 1057, 1058, 1059, 1060, 1061, 1062, 1089, 1090, 1091, 1092, 1107, 1108, 1109, 1110 [MIB] 1063 [Community] 1065, 1066 [TRAP] 1067, 1068, 1069, 1070 [Raw/TCP] 945, 1073, 1074 [LPD] 1075, 1076, 1077 [IPP] 1078, 1079, 1080, 1081, 1082, 1083, 1084, 1085, 1086, 1087, 1088

Classification	e-STUDIO350/450	
	Adjustment Mode (05)	Setting Mode (08)
Network		[Novell] 1093, 1094 [SerchRoot] 1095 [Print queue] 1096 [ASCII code] 977 [Rendezvous] 1103 [Link local host name] 1104 [Service name] 1105 [Host name] 1112 [Internet FAX] 1114, 1485 [SMB] 1117, 1136 [Samba] 1137 [Workgroup name] 1124 [Private print] 1432 [Function] 1433, 1434 [Scan to E-mail] 1484 [From Address] 1487, 1488, 1489 [E-mail domain] 1491
Counter		[External counter] 202, 381, 683, 975 [Counter copy] 257 [Paper size] 305-0 to 16, 306-0 to 16, 307-0 to 16, 308-0 to 16, 312-0 to 16, 313-0 to 16, 314-0 to 16, 315-0 to 16, 316-0 to 16 [Large/Small size] 320-0 to 2, 321-0 to 2, 322-0 to 2, 323-0 to 2, 327-0 to 2, 328-0 to 2, 329-0 to 2, 330-0 to 2, 332-0 to 2, 335-0 to 2 [Double count] 344, 346, 347, 348, 349, 352, 353 [Paper source] 356, 357, 358, 359, 360, 370, 372, 374 [HDD] 390, 391, 392, 393 [Department management] 629 [Fuser unit] 1372 [Toner cartridge] 1376 [Media type] 1385, 1386, 1387, 1388, 1412 [Toner cartridge driver counts] 1410

Classification	e-STUDIO350/450	
	Adjustment Mode (05)	Setting Mode (08)
Version		[System firmware] 900, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 933, 934, 935, 936, 937, 938, 939, 944 [Engine firmware] 903, 905, 907, 908 [FAX] 915 [NIC] 916
Maintenance		[PM counter] 251, 252 [Telephone] 250 [Error history] 253 [FSMS] 258, 999 [Service notification] 702, 703, 707, 710, 711, 715, 716, 717, 718, 719, 720, 721, 723, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 796, 1145 [HTTP] 726, 727, 728, 729, 730, 731 [Supply order] 732, 733, 734, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 758, 759, 760, 761, 762, 763, 765, 794, 795 [Firmware download] 797



Classification	e-STUDIO350/450	
	Adjustment Mode (05)	Setting Mode (08)
Others	[Equipment number] 976	[Destination] 201, 701 [Line] 203 [Private printing] 259 [Local I/F] 614 [Memory] 615 [Partition] 662, 666, 667 [Clear] 665, 669, 693 [Trial period] 673, 695, 798, 799 [Banner] 678, 679, 680 [Database] 684, 685, 686 [HDD] 670, 690, 691, 694, 1422, 1424, 1426 [Control panel] 692 [Scrambler board] 696, 698, 699 [Equipment number] 995 [Message button] 681 [Initialization] 947 [Mode setting] 948, 949 [Template] 1140 [NVRAM] 1427 [SRAM] 1428

## 2.2.11 Classification List of Adjustment Mode (05) / Setting Mode (08) (e-STUDIO352/353/452/453)

Classification	e-STUDIO352/353/452/453	
	Adjustment Mode (05)	Setting Mode (08)
User interface		[Date/Time] 200, 638, 640 [Timer] 204, 205, 206, 260 [Screen] 207, 602, 1132 [File] 209, 219, 264, 288 [Language] 220, 221 [Administrator] 263 [Scanning] 265, 266, 273, 274 [Filing] 267, 270, 950, 976, 985 [HDD] 271 [E-mail] 272, 1097, 1098 [default setting] 276, 281, 283, 284, 285, 286, 331, 480, 503, 550, 603, 604, 607, 618, 642, 986, 1135 [Raw printing] 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 973, 978, 979, 1856, 1857, 9117 [Copy volume] 300 [Original counter] 302 [Custom Mode] 508 [Energy saving] 601 [AMS] 605 [Sound] 610, 969, 970 [Book duplexing] 611 [Summer time] 3852, 3853, 3854, 3855, 3856, 3857, 3858, 3859, 3860, 3861, 3862, 3863 [Paper size] 613 [Department management] 620, 621, 622, 623, 624, 617, 672

Classification	e-STUDIO352/353/452/453	
	Adjustment Mode (05)	Setting Mode (08)
User interface		[Sorting] 627, 634, 641, 649 [Original direction] 628 [Image shift] 636, 1429, 1430 [Edit copying] 645, 646 [Box printing] 953, 954 [X in 1] 650 [Annotation] 651, 657 [Automatic transfer] 660, 661 [Indicator] 671 [Priority drawer] 689 [Media type] 697 [Offsetting between jobs] 682 [Job build] 1130, 1131 [Display of REVERSE ORDER] 213 [Displaying number of original pages] 342 [Toner is nearly empty] 972 [Paper size setting (drawers)] 1478 [Selectable security level] 1708 [Keyboard layout] 1929, 1930, 1931, 1932, 1933, 1934, 1935 [JOB STATUS] 983 [Jam releasing] 9359 [PM] 9891
Scanner	[Position] 305, 306 [Distortion] 308 [Reproduction ratio] 340 [Carriage position] 359 [Shading position] 350, 351	[Enhanced template] 9886, 9888

Classification	e-STUDIO352/353/452/453	
	Adjustment Mode (05)	Setting Mode (08)
Image	[Margin] 430, 431, 432, 433, 434 -0 to 1, 435, 436, 437, 438 [Image density] 501, 503, 504, 505, 506, 507, 508, 509, 510, 512, 514, 515, 710, 714, 715, 719, 720, 724, 725, 729, 845, 846, 847, 850, 851, 852, 855, 856, 857, 860, 861, 862, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942 [Range correction] 532, 533, 534, 570, 571, 572, 693, 694, 695, 825, 826, 827, 830, 831, 832, 835, 836, 837, 913, 914, 915, 916, 917, 918, 919, 920, 921 [Gamma slope] 593, 594, 595, 943, 944, 945 [Gamma balance] 596-0 to 2, 597-0 to 2, 598-0 to 2, 599-0 to 2 [Sharpness] 620, 621, 622, 865-0 to 2, 866-0 to 2, 867-0 to 2, 922, 923, 924 [Smudged/Faint text] 648, 654, 655, 928 [Printer density] 672-0 to 4, 676-0 to 4 [Binarizing] 700, 701, 702	[Error diffusion / Dither] 502, 509 [Default setting of sharpness] 1479
Drive	[Main motor] 421, 422 [Exit motor] 424, 425	
Paper feeding	[Aligning amount] 448-0 to 2, 449-0 to 2, 450-0 to 2, 452-0 to 2, 455-0 to 2, 457, 458-0 to 2, 460-0 to 2, 461-0 to 2, 462-0 to 3, 463-0 to 2, 469-0 to 5, 470-0 to 2, 471-0 to 2, 472-0 to 2, 473, 474-0 to 2 [Paper pushing amount] 466-0 to 7, 467	[paper dimension] 210, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 471 [Paper feeding] 254, 255, 481, 619, 658, 659, 988 [Retry] 463-0 to 1, 464-0 to 1, 465-0 to 1, 466-0 to 1, 467-0 to 1, 468-0 to 1, 482, 1390, 1391, 1392, 1393, 1394, 1395, 1396, 1397, 1398, 1399, 1400, 1401 [Paper size] 216, 217, 224, 225, 226, 227, 228, 247, 248, 249, 256 [Blank copying prevention] 625 [Incorrect paper size jam] 449 [Tab paper] 1437, 1438, 1439 [Detection method of 13"LG] 1492

Classification	e-STUDIO352/353/452/453	
	Adjustment Mode (05)	Setting Mode (08)
Laser	[Laser power] 286 [Polygonal motor] 401, 405 [Write starting] 410, 411, 440, 441, 442, 443, 444, 445, 498-0 to 1 [Sideways deviation] 497-0 to 5	[Polygonal motor] 398, 399, 478, 479, 483, 484, 485, 486, 488, 489, 490 [Power correction] 872, 873, 875, 876, 877
Developer	[Auto-toner] 200, 201	[Auto-toner] 414, 455, 840 [Black band] 419
High-voltage transformer	[Main charger bias] 210 [Developer bias] 205 [Transfer bias] 221 [Separation bias] 231	[Transfer bias] 491, 492, 493, 868, 869 [Main charger bias] 826, 864, 865, 866, 867 [Transfer timing] 841 [Developer bias] 859, 860, 861, 862, 863
Fuser		[Status counter] 400 [Temperature] 409, 410, 411, 412, 413, 437, 438, 855 [Pre-running] 417, 420, 439, 440, 441, 526, 856
Fan		[Separation fan] 469 [Middle fan] 472
RADF	[Aligning amount] 354, 355 [Transporting] 357, 358, 365, 366	[Switchback] 462
Finisher	[Folding / Binding position] 468-0 to 2	[Tray reset] 648 [Cascade] 652, 653 [Interruption of stapling operation (no staple) ] 704-0 to 1 [Manual stapling] 1911 [Finisher model] 1912 [Hole punching] 9847

Classification	e-STUDIO352/353/452/453	
	Adjustment Mode (05)	Setting Mode (08)
Network		[NIC] 1002, 1003, 1119 [IP address] 1005, 1006, 1007, 1008, 1009, 1010, 3769 [IPX] 1011, 1099 [Frame type] 1012 [NCP] 1013 [Apple Talk] 1014, 1015, 1854, 1855, 1936 [LDAP] 1016, 1138, 1139, 3506, 3507, 3743, 9629 [DNS] 1017, 1018, 1019, 3736, 3781, 3782, 3784 [DDNS] 1020, 3737, 3745, 3746, 3747, 3748 [DHCP] 3772, 3773, 3774, 3778, 3779, 3780 [DPWS] 3749, 3750, 3751, 3752, 3753, 3754, 3755, 3756, 3757, 3758, 3759, 3760, 3761, 3762, 3763, 3764, 3765, 3766, 3785 [NetBios] 1023 [WINS] 1024, 1025 [Bindery] 1026 [NDS] 1027 [Directory] 1028, 1029 [HTTP] 1030, 1031, 1032, 3738 [SMTP] 1037, 1038, 1039, 1040, 1041, 1042, 1100, 1101, 1102, 1111, 3741 [Direct SMTP] 3810, 3811 [Offramp] 1043, 1044, 1045 [POP3] 1046, 1047, 1048, 1049, 1050, 1051, 1052, 3742, 3744 [FTP] 1055, 1057, 1058, 1059, 1060, 1061, 1062, 1089, 1090, 1091, 1092, 3739 [MIB] 1063 [Community] 1065, 1066 [TRAP] 1067, 1068, 1069, 1070 [Raw/TCP] 945, 1073, 1074 [LPD] 1075, 1076, 1077, 1852, 1853

Classification	e-STUDIO352/353/452/453	
	Adjustment Mode (05)	Setting Mode (08)
Network		[IPP] 1078, 1079, 1080, 1081, 1082, 1083, 1084, 1085, 1086, 1087, 1088, 1447, 1448, 1449, 1450, 1451, 1850, 1851 [IPv6] 3767, 3768, 3770, 3775, 3776, 3777 [Novell] 1093, 1094 [SerchRoot] 1095 [Print queue] 1096 [ASCII code] 977 [Rendezvous] 1103 [Link local host name] 1104 [Service name] 1105 [Host name] 1112 [Internet FAX] 1114, 1485, 3812, 3819, 3820, 3821, 3822, 3823, 3824, 3825, 3826, 3827, 3828, 3829, 3830 [SMB] 1117, 1950, 1951 [Samba] 1464, 3783, 3883 [Workgroup name] 1124 [Private print] 1432 [Scan to E-mail] 1484 [From Address] 1487, 1489 [E-mail] 3837, 9946, 9947 [E-mail domain] 1491 [User authentication] 1113, 1471, 1496, 1921, 1922, 1925, 1937, 1954, 1955, 1956, 1957, 1943 [PDC] 1121 [BDC] 1122 [NT domain] 1123 [Address book] 1125, 1476, 1477 [Netware] 1128, 1129, 1134, 1143, 1144, 1148 [MAC address] 1141 [ACC] 1431 [Disable print save] 1435

Classification	e-STUDIO352/353/452/453	
	Adjustment Mode (05)	Setting Mode (08)
Network		[Disable fax save] 1436 [IP Conflict] 1440 [SNTP] 1441, 1442, 1444, 1445, 1446, 3740, 3845 [Device authentication] 1470, 1920, 1952, 1953, 1958, 1959, 1942, 1944 [IP Filter] 1720, 1721, 1722, 1723, 1724, 1725, 1726, 1727, 1728, 1729, 1730, 1731, 1732, 1733, 1734, 1735, 1736, 1737, 1738, 1739 [SSL setting] 1740, 1741, 1742, 1743, 1744, 1745, 1746, 1747, 1748, 1749, 1750, 1751, 9819, 9822 [Enable server's IP] 1755, 1756, 1757, 1759, 1760, 1762, 1767 [Previous IP address] 1768 [Card authentication] 1776, 1777, 1927 [Scan to File] 1779, 1784, 1786, 3804, 3815, 3816, 3817, 3818 [Notification of scan job] 1781-0 to 1 [Save as file and Email transmission] 1782, 1783, 1785, 9394 [Network scanning] 1915 [Remote scanning] 1940 [LDAP authentication] 1923, 1924 [Role Based Access] 1928, 3831 [Prefix] 3771 [LLTD] 3793 [LLMNR] 3794 [Telnet] 3864, 3865, 3866, 3867, 3868
Wireless LAN		[Driver] 1660, 1661, 1662, 1663, 1664, 1665, 1666, 1667, 1668, 1669, 1670, 1671, 1672, 1673, 1674, 1675, 1676, 1677, 1678 [Supplicant] 1679, 1681, 1682, 1684, 1685, 1686, 1689, 1690, 1691, 1692, 1693, 1696, 1697, 1699, 1700, 1701, 1704, 1705, 1706, 1707, 1764, 1765, 1766
Bluetooth		[Bluetooth] 1709, 1710, 1711, 1712, 1713, 1714, 1715, 1716, 1717, 1719, 1941



Classification	e-STUDIO352/353/452/453	
	Adjustment Mode (05)	Setting Mode (08)
Counter		[External counter] 202, 381, 683, 975, 1126 [Counter copy] 257 [Paper size] 305-0 to 16, 306-0 to 16, 307-0 to 16, 308-0 to 16, 312-0 to 16, 313-0 to 16, 314-0 to 16, 315-0 to 16, 316-0 to 16 [Large/Small size] 320-0 to 2, 321-0 to 2, 322-0 to 2, 323-0 to 2, 327-0 to 2, 328-0 to 2, 329-0 to 2, 330-0 to 2, 332-0 to 2, 335-0 to 2 [Double count] 344, 346, 347, 348, 349, 352, 353 [Paper source] 356, 357, 358, 359, 360, 370, 372, 374 [HDD] 390, 391, 392, 393 [Department management] 629 [Fuser unit] 1372 [Toner cartridge] 1376 [Media type] 1385, 1386, 1387, 1388, 1412 [Toner cartridge driver counts] 1410 [Number of output pages] 1530-0 to 7, 1533-0 to 7, 1535-0 to 7, 6810-0 to 7, 6813-0 to 7, 6815-0 to 7,
Version		[System firmware] 900, 911, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 933, 934, 935, 936, 937, 938, 939, 944 [Engine firmware] 903, 905, 907, 908 [FAX] 915

Classification	e-STUDIO352/353/452/453	
	Adjustment Mode (05)	Setting Mode (08)
Maintenance		[PM counter] 251, 252 [Telephone] 250 [Error history] 253 [FSMS] 258, 999 [Service notification] 702, 703, 707, 710, 711, 715, 716, 717, 718, 719, 720, 721, 723, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 796, 1145, 9739, 9880, 9881 [HTTP] 726, 727, 728, 729, 730, 731 [Supply order] 732, 733, 734, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 758, 759, 760, 761, 762, 763, 765, 794, 795 [Firmware download] 797 [Service call checking period] 1495 [Equipment information] 9960

Classification	e-STUDIO352/353/452/453	
	Adjustment Mode (05)	Setting Mode (08)
Others	[Equipment number] 976	[Destination] 201, 701 [Line] 203 [Private printing] 259 [Local I/F] 614 [Memory] 615 [Partition] 662, 666, 667 [Clear] 665, 669, 693 [Trial period] 673, 695, 798, 799 [Banner] 678, 679, 680 [Database] 684, 685, 686 [HDD] 670, 690, 691, 694, 1422, 1424, 1426 [Control panel] 692 [Scrambler board] 696, 698, 699 [Data overwrite kit] 633 [Equipment number] 995 [Message button] 681 [Initialization] 947 [Mode setting] 949 [Template] 1140, 3851 [NVRAM] 1427 [SRAM] 1428 [TAT partition] 1118 [Enhanced bold] 1149 [User data management] 1472, 1473, 1474, 1481, 1482, 1483 [Limitation] 1494, 9829 [Inbound FAX] 1498 [Card reader] 1772, 1773, 1774, 1775 [FAX reception] 1926 [e-Filing Access Mode] 1497 [Administrator's password] 1778 [File/Email] 1913, 1916

Classification	e-STUDIO352/353/452/453	
	Adjustment Mode (05)	Setting Mode (08)
Others		[Extension fields] 1914 [KS/KSSM setting] 1961 [KS] 1960, 1963, 1964, 1965, 1966, 1967, 1968, 1970, 1971, 1972, 1973, 1974, 1975, 1976, 1977, 1978, 1979, 1980 [KSSM] 1984, 1985, 1986, 1987, 1988, 1989, 1990, 1991, 1992, 1993, 1994 [Remote scanning] 3850, 9828 [Filing box] 9882 [Data encryption] 3834 [Data cloning] 9889 [Electronic Key] 3840, 3841, 3842 [FAX function] 3847, 3848, 3849

## 3. ADJUSTMENT

### 3.1 Adjustment of Auto-Toner Sensor

When the developer material is replaced, adjust the auto-toner sensor in the following procedure.

<Procedure> (Adjustment Mode (05-200))

- (1) Install the cleaner and developer unit into the equipment.

**Note:**

Do not install the toner cartridge.

- (2) While pressing [0] and [5] simultaneously, turn the power ON.  
The following message will be displayed.

[0] [5]  
[POWER] →

100%	A	<u>A3</u>
TEST MODE		

- (3) Key in code [200] and press the [START] button.  
The display changes as follows.

[200] → [START] →

B ↓		
230%	200	<u>A3</u>
TEST MODE		
128		128
C ↑		↑ A

**Notes:**

- A indicates the controlled value of the auto-toner sensor output.
- B indicates the output voltage of the auto-toner sensor (2.30 V in the above case).  
The drum, developer unit, etc. are in operation.
- C indicates the latest adjustment value.

- (4) After about two minutes, the value B automatically starts changing.

230%	200	<u>A3</u>
TEST MODE		WAIT
128		128

- (5) After a short time, the value B becomes stable and the display changes as follows.

<div style="text-align: center;"> <div style="display: inline-block; vertical-align: middle;">↓</div> <div style="display: inline-block; vertical-align: middle;">B</div> </div>		
240%	200	<u>A3</u>
ADJUSTMENT MODE		
128		158
<div style="text-align: right;"> <div style="display: inline-block; vertical-align: middle;">↑</div> <div style="display: inline-block; vertical-align: middle;">A</div> </div>		

- (6) Check if the value B is within the range of 235 to 245 (the output voltage range of the auto-toner sensor is 2.35 V to 2.45 V).
- (7) If the value B is not within the range of 235 to 245, press the Up or Down button to adjust the value manually.

**Note:**

The relation between the button and the values A and B is as follows.

Button to be pressed	Value A	Value B
Up	Increased	Increased
Down	Decreased	Decreased

- (8) Press the [ENTER] or [INTERRUPT] button.  
The drum, developer unit, etc. are stopped and the following is displayed.

<div style="text-align: center;"> <div style="display: inline-block; vertical-align: middle;">[ENTER]</div> <div style="display: inline-block; vertical-align: middle;">or</div> <div style="display: inline-block; vertical-align: middle;">→</div> <div style="display: inline-block; vertical-align: middle;">[INTERRUPT]</div> </div>	100%	A	<u>A3</u>
	TEST MODE		

- (9) Turn the power OFF.
- (10) Install the toner cartridge.

## 3.2 Image Dimensional Adjustment

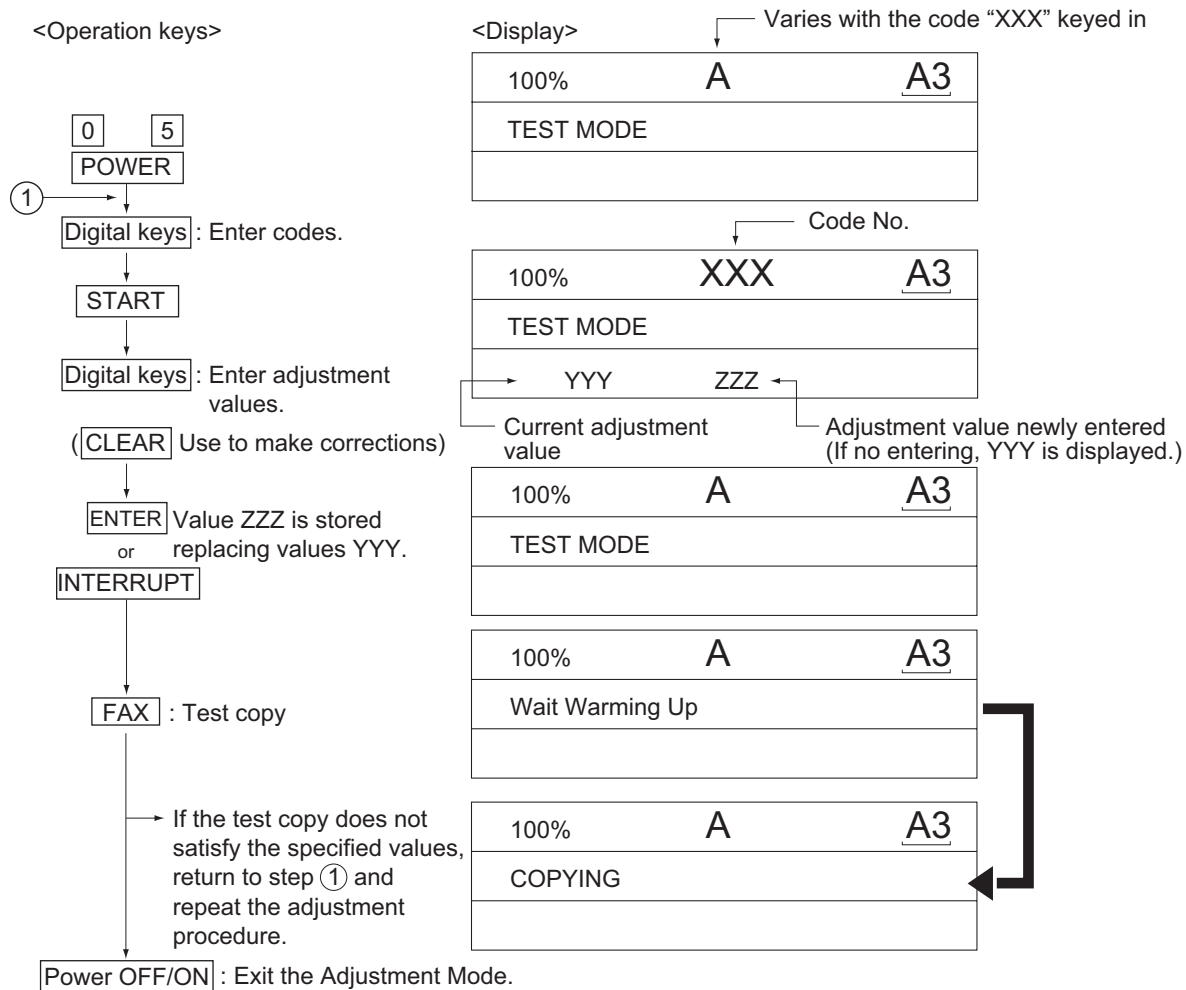
### 3.2.1 General description

There are several adjustment items in the image dimensional adjustment, as listed below. When adjusting these items, the following adjustment order should strictly be observed.

Item to be adjusted		Code in mode 05
<ul style="list-style-type: none"> <li>Paper alignment at the registration roller</li> </ul>		448, 449, 450, 452, 455, 457, 458, 460, 461, 462, 463, 469, 470, 471, 472, 473, 474
<ul style="list-style-type: none"> <li>Printer related adjustment</li> </ul>	(a) Reproduction ratio of primary scanning direction (Fine adjustment of polygonal motor rotation speed)	401
	(b) Primary scanning data laser writing start position	411
	(c) Reproduction ratio of secondary scanning direction (Fine adjustment of main motor rotation speed)	421
	(d) Secondary scanning data laser writing start position	441, 440, 444, 443, 442, 445
	(e) Primary scanning data laser writing start position at duplexing	498
<ul style="list-style-type: none"> <li>Scanner related adjustment</li> </ul>	(a) Image distortion	-
	(b) Reproduction ratio of primary scanning direction	405
	(c) Image location of primary scanning direction	306
	(d) Reproduction ratio of secondary scanning direction	340
	(e) Image location of secondary scanning direction	305
	(f) Top margin	430
	(g) Right margin	432
	(h) Bottom margin	433

# [Procedure to key in adjustment values]

In accordance with the procedure described below, make adjustment of each adjustment item so that the measured values obtained from test copies satisfy the specification. By pressing the [FAX] button, immediately after starting the Adjustment Mode (05S), single-sided test copying can be performed (normal copy mode).





### 3.2.2 Paper alignment at the registration roller

The aligning amount is adjusted by using the following codes in Adjustment Mode (05).

Paper type	Weight	Upper drawer	Lower drawer	PPP upper drawer	PPP lower drawer	LCF	ADU	Bypass feed
Plain paper	64 - 80 g/m <sup>2</sup> 17 - 20 lb.	450 (*1)	452 (*1)	448 (*1)	449 (*1)	457	455 (*1)	458 (*1)
Thick paper 1	81 - 105 g/m <sup>2</sup> 21 - 28 lb.	469 (*1)	470 (*1)	471 (*1)	472 (*1)	473	474 (*1)	460 (*1)
Thick paper 2	106 - 163 g/m <sup>2</sup> 29 - 43 lb.	-	-	-	-	-	-	461 (*1)
Thick paper 3	164 - 209 g/m <sup>2</sup> 44 - 55 lb.	-	-	-	-	-	-	462 (*2)
OHP	-	-	-	-	-	-	-	463 (*3)

Sub-code

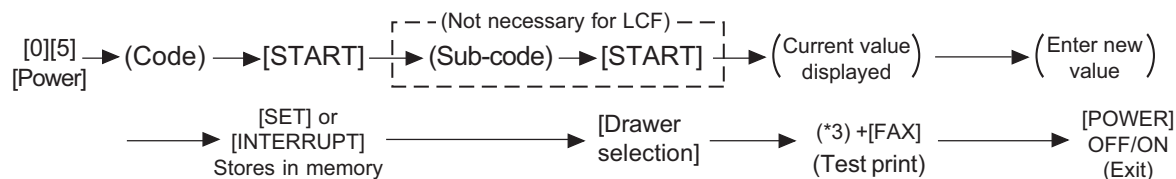
- \*1 0: Long size                      1: Middle size                      2: Short size  
 \*2 0: Long size                      1: Middle size                      2: Short size                      3: Post card  
 \*3 0: Long size of OHP film   1: Middle size of OHP film   2: Short size of OHP film

**Notes:**

1. Long size: 330 mm or longer (13.0 inches or longer)  
 Middle size: 220 - 239 mm (8.7 - 12.9 inches)  
 Short size: 219 mm or shorter (8.6 inches or shorter)
2. The adjustment of "Post card" is for Japan only.

<Procedure>

- (1) Perform the test print according to the following procedure.



(\*4) 1: Single-sided grid pattern 3: Double-sided grid pattern

- (2) Check if any transfer void is occurring. If there is a transfer problem, try the values in descending order as "31" → "30" → "29"... until the transfer void disappears. At the same time, confirm if any paper jam occurs. Also, when the aligning amount has been increased, this may increase the scraping noise caused by the paper and the Mylar sheet as it is transported by the registration roller. If this scraping noise is annoying, try to decrease the value.

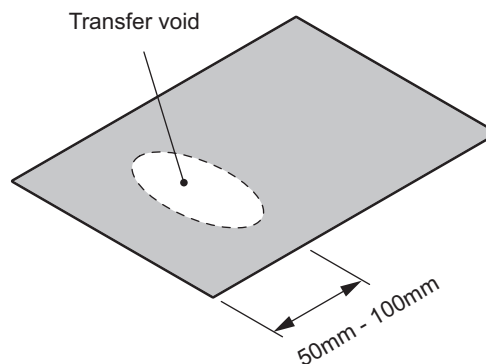


Fig. 3-1

- (3) Perform the same procedure for all paper sources.

**Note:**

When paper thinner than specified is used, paper jams may occur frequently at the registration section. In this case, it is advisable to change (or reduce) the aligning amount.

However, if the aligning amount is reduced too much, this may cause the shift of leading edge position. So, when adjusting the aligning amount, try to choose the appropriate amount while confirming the leading edge position is not shifted.

\* As a tentative countermeasure, the service life of the feed roller can be extended by increasing the aligning amount.

### 3.2.3 Printer related adjustment

#### [A] Reproduction ratio of primary scanning direction (Fine adjustment of polygonal motor rotation speed (Printer))

- (1) While pressing [0] and [5] simultaneously, turn the power ON. → (Adjustment Mode)
- (2) Press [1] → [FAX]. (A grid pattern with 10 mm squares is printed out. Use A3/LD from the lower drawer.)
- (3) Measure the distance A from the 1st line to the 21st line of the grid pattern.
- (4) Check if the distance A is within  $200 \pm 0.5$  mm.
- (5) If not, use the following procedure to change values and measure the distance A again.  
 <Procedure>  
 (Adjustment Mode) → (Key in code [401]) → [START]  
 → (Key in a value (acceptable values: 0 to 255))  
 → [ENTER] or [INTERRUPT] (Stored in memory)  
 → "100% A" is displayed.  
 → Press [1] → [FAX] → (A grid pattern is printed out.)  
 \* The larger the adjustment value is, the longer the distance A becomes. (approx. 0.125 mm/step)

#### [B] Primary scanning data laser writing start position (Printer)

- (1) While pressing [0] and [5] simultaneously, turn the power ON. → (Adjustment Mode)
- (2) Press [1] → [FAX]. (A grid pattern with 10 mm squares is printed out. Use A3/LD from the lower drawer.)
- (3) Measure the distance B from the left edge of the paper to the 6th line of the grid pattern.
- (4) Check if the distance B is within  $52 \pm 0.5$  mm.
- (5) If not, use the following procedure to change values and measure the distance B again.  
 <Procedure>  
 (Adjustment Mode) → (Key in the code [411]) → [START]  
 → (Key in a value (acceptable values: 0 to 255))  
 → [ENTER] or [INTERRUPT] (Stored in memory).  
 → "100% A" is displayed  
 → Press [1] → [FAX] → (A grid pattern is printed out.)  
 \* The larger the adjustment value is, the longer the distance B becomes. (approx. 0.05 mm/step)
- (6) After the adjustment for the code 411 is completed, apply the same adjustment value for the code 410.  
 <Procedure>  
 (Adjustment Mode) → (Key in the code [410]) → [START]  
 → (Key in the same value in the step 5 above)  
 → Press [ENTER] or [INTERRUPT] (Stored in memory).

#### Note:

Make sure the first line of the grid pattern is printed out since the line is occasionally vanished.

**[C] Reproduction ratio of secondary scanning direction (Fine adjustment of main motor rotation speed (Copier/Printer))**

- (1) While pressing [0] and [5] simultaneously, turn the power ON. → (Adjustment mode)
- (2) Press [1] → [FAX]. (A grid pattern with 10 mm squares is printed out. Use A3/LD from the lower drawer.)
- (3) Measure the distance C from the 2nd line at the leading edge of the paper to the 22nd line of the grid pattern.  
\* Normally, the 1st line of the grid pattern is not printed.
- (4) Check if the distance C is within  $200 \pm 0.5$  mm.
- (5) If not, use the following procedure to change values and measure the distance C again.  
<Procedure>  
(Adjustment Mode) → (Key in code [421]) → [START]  
→ (Key in a value (acceptable values: 0 to 255))  
→ [ENTER] or [INTERRUPT] (Stored in memory)  
→ "100% A" is displayed  
→ Press [1] → [FAX] → (A grid pattern is printed out.)  
\* The larger the adjustment value is, the longer the distance C becomes. (approx. 0.125 mm/step)

**[D] Secondary scanning data laser writing start position**

This adjustment has to be performed for each paper source.

The following table shows the order of the paper source to be adjusted, code, paper size and acceptable values.

Order for adjustment	Paper source	Code	Paper size	Acceptable value	Remarks
1	Lower drawer	441	A3/LD	0 to 40	
2	Upper drawer	440	A4/LT	0 to 15	
3	PFP or LCF	444/443	A4/LT	0 to 15	
4	Bypass feed	442	A4/LT	0 to 15	
5	Duplexing	445	A3/LD	0 to 15	Paper fed from the lower drawer

- (1) While pressing [0] and [5] simultaneously, turn the power ON. → (Adjustment Mode)
- (2) Press [1] ([3] for duplexing) → [FAX]. (A grid pattern with 10 mm squares is printed out.)
- (3) Measure the distance D from the leading edge of the paper to the 6th line of the grid pattern.  
\* Normally, the 1st line of the grid pattern is not printed.  
\* At the duplexing, measure it on the top side of the grid pattern.
- (4) Check if the distance D is within  $52 \pm 0.5$  mm.
- (5) If not, use the following procedure to change values and measure the distance D again.  
<Procedure>  
(Adjustment Mode) → (Key in the code shown above with digital keys) → [START]  
→ (Key in an acceptable value shown above with digital keys)  
→ [ENTER] or [INTERRUPT] (Stored in memory)  
→ "100% A" is displayed  
→ Press [1] ([3] for duplexing)  
→ [FAX] → (A grid pattern is printed out.)  
\* The larger the adjustment value is, the longer the distance D becomes. (approx. 0.4 mm/step)

## **[E] Primary scanning data laser writing start position at duplexing**

### **Note:**

Make sure the first line of the grid pattern is printed out since the line is occasionally vanished.

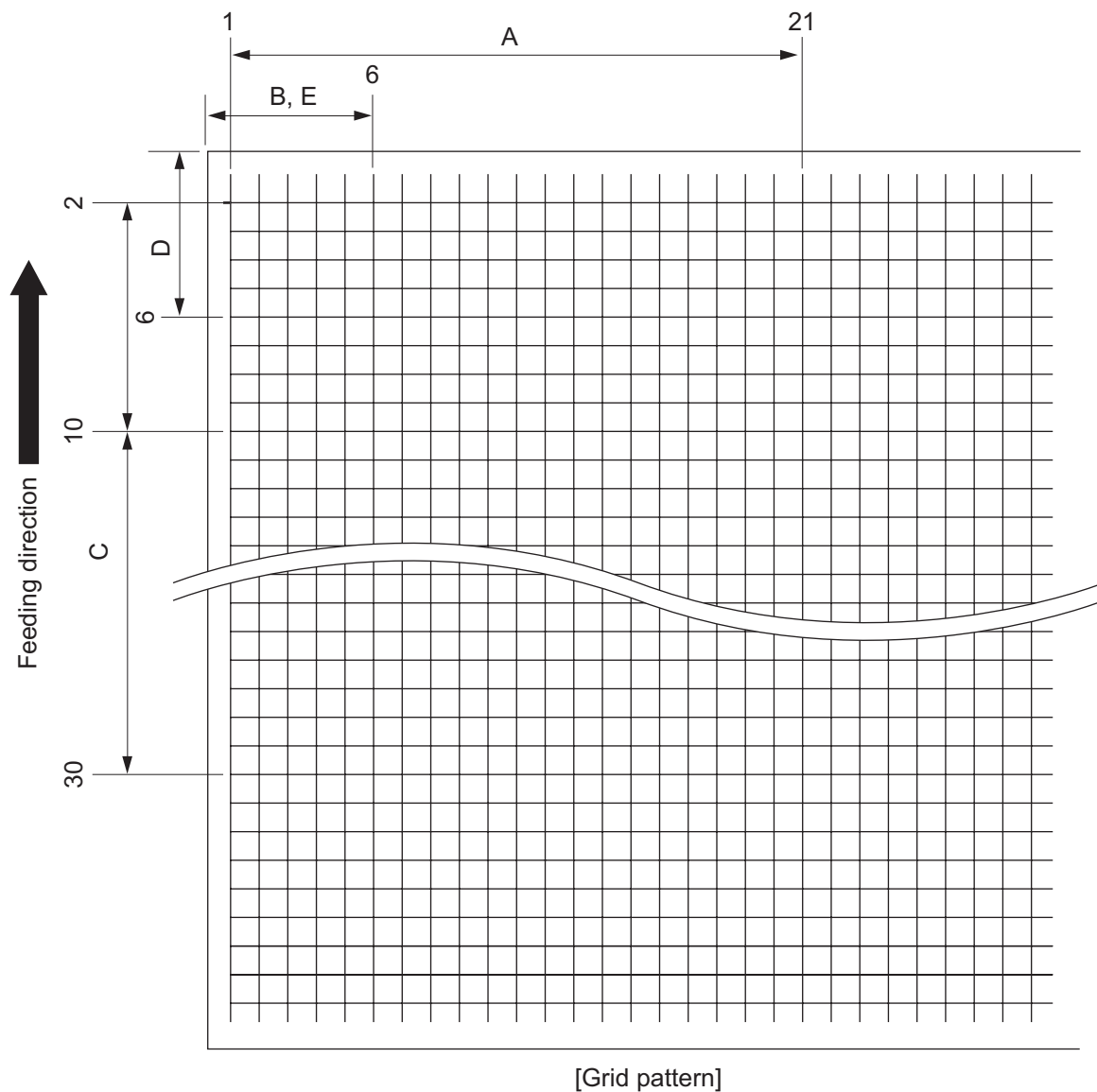
### **[E-1] Adjustment for long-sized paper**

- (1) While pressing [0] and [5] simultaneously, turn the power ON. → (Adjustment Mode)
- (2) Press [3] → [FAX]. (A grid pattern with 10 mm squares is printed out. Use A3/LD from the lower drawer.)
- (3) Check the grid pattern on the test print and measure the distance E from the left edge of the paper to the 6th line of the grid pattern.
- (4) Check if the distance E is within  $52 \pm 0.5$  mm.
- (5) If not, use the following procedure to change values and measure the distance E again.  
<Procedure>  
(Adjustment Mode) → (Key in code [498]) → [START] → [0] → [START]  
→ (Key in a value (acceptable values: 0 to 255))  
→ [ENTER] or [INTERRUPT] (Stored in memory)  
→ "100% A" is displayed.  
→ Press [3] → [FAX] → (A grid pattern is printed out.)  
\* The larger the adjustment value is, the longer the distance E becomes. (approx. 0.05 mm/step)

### **[E-2] Adjustment for short-sized paper**

- (1) While pressing [0] and [5] simultaneously, turn the power ON. → (Adjustment Mode)
- (2) Press [3] → [FAX]. (A grid pattern with 10 mm squares is printed out. Use A4/LT from the upper drawer.)
- (3) Check the grid pattern on the test print and measure the distance E from the left edge of the paper to the 6th line of the grid pattern.
- (4) Check if the distance E is within  $52 \pm 0.5$  mm

- (5) If not, use the following procedure to change values and measure the distance E again.  
 <Procedure>  
 (Adjustment Mode) → (Key in the code [498]) → [START] → [1] → [START]  
 → (Key in a value (acceptable values: 0 to 255) )  
 → [ENTER] or [INTERRUPT] (Stored in memory).  
 → "100% A" is displayed  
 → Press [3] → [FAX] → (A grid pattern is printed out.)  
 \* The larger the adjustment value is, the longer the distance E becomes. (approx. 0.05 mm/step)



**Fig. 3-2 Grid pattern**

<Adjustment order>

[0] [5] [Power ON] → [1] ([3](05-445, 498) for duplexing) → [FAX]

A: 05-401 (Lower drawer, A3/LD) →  $200 \pm 0.5$  mm (0.125 mm/step)

B: 05-411 (Lower drawer, A3/LD) →  $52 \pm 0.5$  mm (0.05 mm/step)

→ Key in the same value for 05-410.

C: 05-421 (Lower drawer, A3/LD) →  $200 \pm 0.5$  mm (0.125 mm/step)

D: 05-441 (Lower drawer, A3/LD), 440 (Upper drawer, A4/LT), 444 (PFP, A4/LT),

443 (LCF, A4/LT), 442 (Bypass feed, A4/LT), 445 (Duplexing, A3/LD)

→  $52 \pm 0.5$  mm (0.4 mm/step)

E: 05-498-0 (Lower drawer, A3/LD), 498-1 (Upper drawer, A4/LT) →  $52 \pm 0.5$  mm (0.05 mm/step)

**Remark:**

When the adjustment (05-421) is performed, the same adjustment for FAX (05-422) is automatically and consecutively performed.

## 3.2.4 Scanner related adjustment

### [A] Image distortion

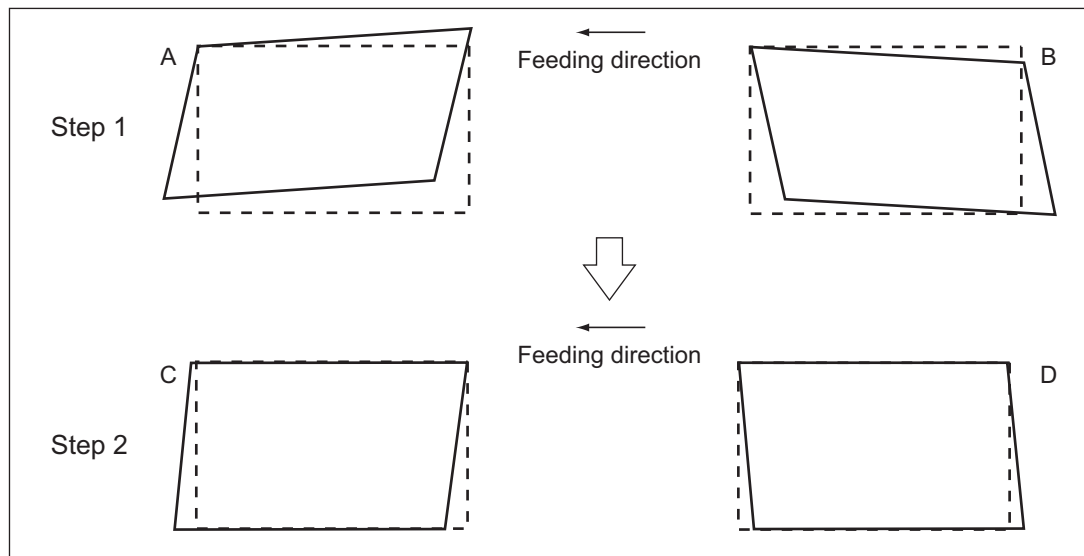


Fig. 3-3

#### <Procedure>

- (1) While pressing [0] and [5] simultaneously, turn the power ON.
- (2) Press [FAX] to make a copy of any image on a sheet of A3/LD paper.
- (3) Key in [308] and press the [START] button to move the carriage to the adjustment position.

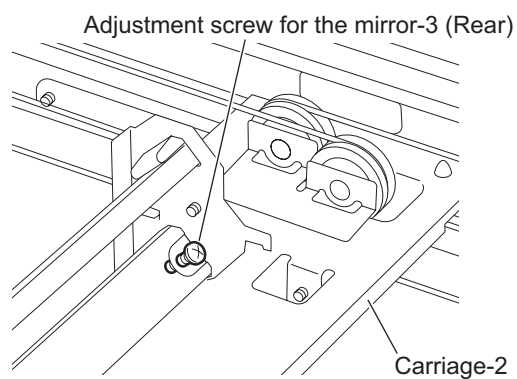


Fig. 3-4

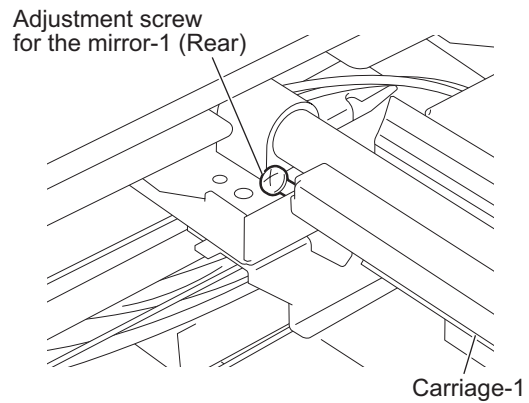


(4) Make an adjustment in the order of step 1 and 2.

- Step 1
  - In case of A  
Tighten the mirror-3 adjustment screw (CW).
  - In case of B  
Loosen the mirror-3 adjustment screw (CCW).
- Step 2
  - In case of C  
Tighten the mirror-1 adjustment screw (CW).
  - In case of D  
Loosen the mirror-1 adjustment screw (CCW).

(5) Apply the screw locking agents to the adjustment screws. (2 areas)

- Recommended screw lock agent  
Manufacturer: Three Bond  
Product name: 1401E



**Fig. 3-5**

## [B] Reproduction ratio adjustment of the primary scanning direction

- (1) While pressing [0] and [5] simultaneously, turn the power ON → (Adjustment Mode)
- (2) Place a ruler on the original glass (along the direction from the rear to the front of the equipment).
- (3) Press [FAX] to make a copy at the mode of A3 (LD), 100% and lower drawer.
- (4) Measure the distance A from 10 mm to 270 mm of the copied image of the ruler.
- (5) Check if the distance A is within the range of  $260 \pm 0.5$  mm.
- (6) If not, use the following procedure to change values and repeat the steps 3. to 5. above.

<Procedure>

(Adjustment Mode) → (Key in the code [405] with the digital keys) → [START]

→ (Key in a value (acceptable values: 0 to 255))

→ Press the [ENTER] or the [INTERRUPT] button (stored in memory).

→ ("100% A" is displayed.)

\* The larger the adjustment value, the higher the reproduction ratio and the longer the distance A become (approx. 0.125 mm/step).

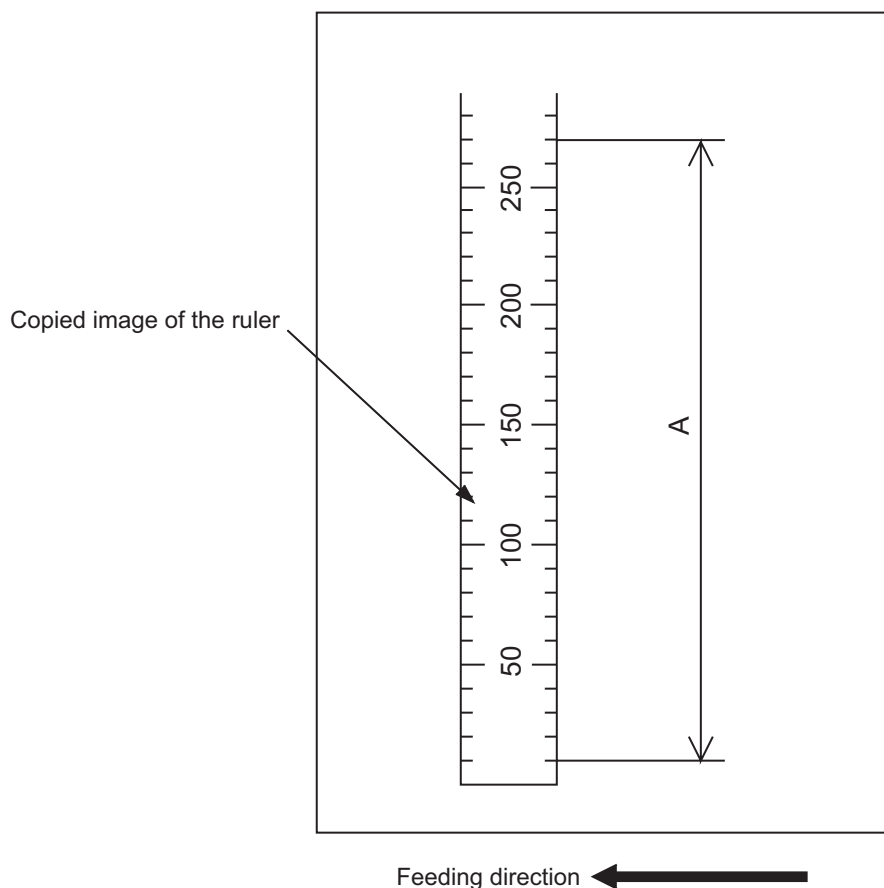


Fig. 3-6

### [C] Image position adjustment of the primary scanning direction

- (1) While pressing [0] and [5] simultaneously, turn the power ON. → (Adjustment Mode)
- (2) Place a ruler on the original glass with its leading edge pushed against the rear side and its side along the original scale on the left.
- (3) Press [FAX] to make a copy at the mode of A3 (LD), 100% and lower drawer.
- (4) Measure the distance B from the left edge of the paper to 10 mm of the copied image of the ruler.
- (5) Check if the distance B is within the range of  $10 \pm 0.5$  mm.
- (6) If not, use the following procedure to change values and repeat the steps 3. to 5. above.

<Procedure>

(Adjustment Mode) → (Key in the code [306] with the digital keys) → [START]

→ (Key in a value (acceptable values: 0 to 255))

→ Press the [ENTER] or the [INTERRUPT] button (stored in memory).

→ ("100% A" is displayed.)

\* The smaller the adjustment value, the more the image is shifted to the left and the distance B becomes narrower (0.085 mm/step).

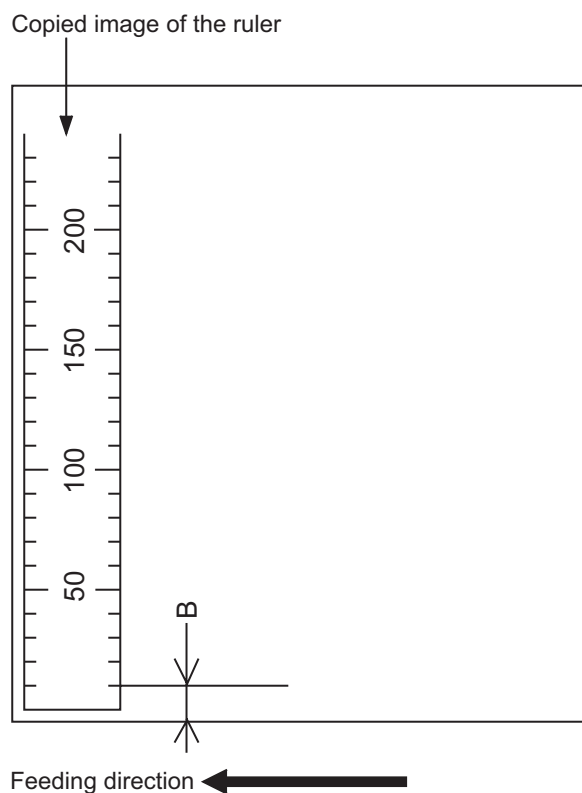


Fig. 3-7

#### [D] Reproduction ratio adjustment of the secondary scanning direction

- (1) While pressing [0] and [5] simultaneously, turn the power ON → (Adjustment Mode)
- (2) Place a ruler on the original glass with its leading edge pushed against the original scale on the left.
- (3) Press [FAX] to make a copy at the mode of A3 (LD), 100% and lower drawer.
- (4) Measure the distance C from 210 mm to 410 mm (in case of A3) or from 220 mm to 420 mm (in case of LD) of the copied image of the ruler.
- (5) Check if the distance C is within the range of  $200 \pm 0.5$  mm.
- (6) If not, use the following procedure to change values and repeat steps 3. to 5. above.

<Procedure>

(Adjustment Mode) → (Key in the code [340] with the digital keys) → [START]

→ (Key in a value (acceptable values: 0 to 255))

→ Press the [ENTER] or the [INTERRUPT] button (stored in memory).

→ ("100% A" is displayed.)

\* The smaller the adjustment value, the lower the reproduction ratio becomes. (0.045 mm/step)

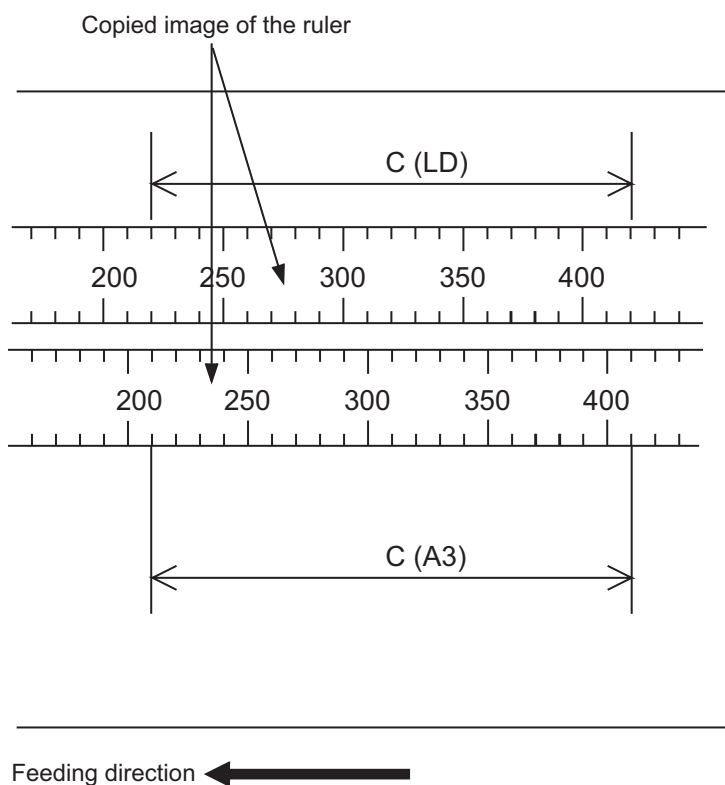


Fig. 3-8

## [E] Image position adjustment of the secondary scanning direction

- (1) While pressing [0] and [5] simultaneously, turn the power ON → (Adjustment Mode)
- (2) Place a ruler on the original glass with its leading edge pushed against the original scale on the left.
- (3) Press [FAX] to make a copy at the mode of A3 (LD), 400% and lower drawer.
- (4) Measure the distance D from the leading edge of the paper to 10 mm of the copied image of the ruler.
- (5) Check if the distance D is within the range of  $34 \pm 0.5$  mm.
- (6) If not, use the following procedure to change values and repeat the steps 3. to 5. above.

<Procedure>

(Adjustment Mode) → (Key in the code [305] with the digital keys) → [START]

→ (Key in a value (acceptable values: 0 to 255))

→ Press the [ENTER] or the [INTERRUPT] button (stored in memory).

→ ("100% A" is displayed.)

\* The larger the adjustment value, the more the image is shifted to the trailing edge (0.68 mm/step).

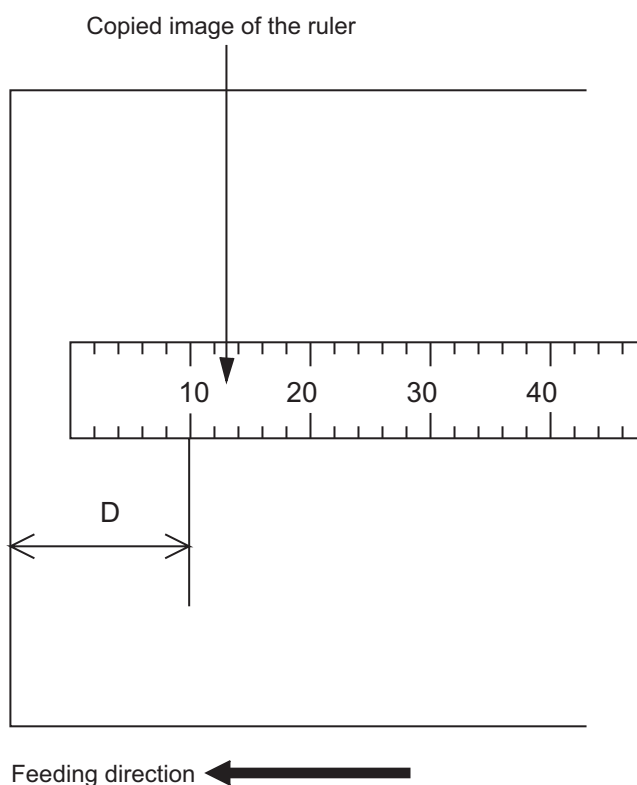


Fig. 3-9

## [F] Top margin

- (1) While pressing [0] and [5] simultaneously, turn the power ON. → (Adjustment Mode)
- (2) Open the platen cover or RADF.
- (3) Press [FAX] to make a copy at the mode of A3/LD, 100%, Text/Photo and lower drawer.
- (4) Measure the blank area E at the leading edge of the copied image.
- (5) Check if the blank area E is within the range of  $3 \pm 0.5$  mm.
- (6) If not, use the following procedure to change values and repeat the steps 3. to 5. above.  
<Procedure>  
(Adjustment Mode) → (Key in the code [430]) → [START]  
→ (Key in a value (acceptable values: 0 to 255))  
→ Press the [ENTER] or the [INTERRUPT] button (stored in memory).  
→ ("100% A" is displayed.)  
\* The larger the adjustment value is, the wider the blank area becomes (approx.0.04 mm/step).

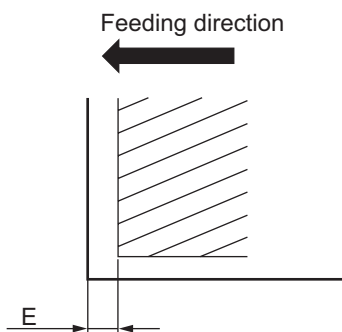


Fig. 3-10

## [G] Right margin

- (1) While pressing [0] and [5] simultaneously, turn the power ON. → (Adjustment Mode)
- (2) Open platen cover or RADF.
- (3) Press [FAX] to make a copy at the mode of A3/LD, 100%, Text/Photo and lower drawer.
- (4) Measure the blank area F at the right side of the copied image.
- (5) Check if the blank area F is within the range of 2+1 mm, 2-0.5 mm.
- (6) If not, use the following procedure to change values and repeat the steps 3. to 5. above.  
<Procedure>  
(Adjustment Mode) → (Key in the code [432]) ? [START]  
→ (Key in a value (acceptable values: 0 to 255))  
→ Press the [ENTER] or the [INTERRUPT] button (stored in memory)  
→ ("100% A" is displayed.)  
\* The larger the adjustment value is, the wider the blank area at the right side becomes (approx. 0.04 mm/step).

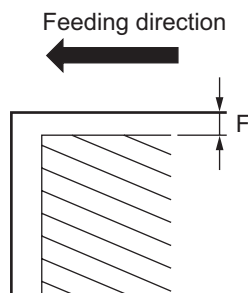


Fig. 3-11

## [H] Bottom margin

- (1) While pressing [0] and [5] simultaneously, turn the power ON. → (Adjustment Mode)
- (2) Open platen cover or RADF.
- (3) Press the [FAX] to make a copy at the mode of A3/LD, 100%, Text/Photo and lower drawer.
- (4) Measure the blank area G at the trailing edge of the copied image.
- (5) Check if the blank area G is within the range of  $2 \pm 0.5$  mm.
- (6) If not, use the following procedure to change values and repeat the steps 2. to 4. above.  
<Procedure>  
(Adjustment Mode) → (Key in the code [433]) → [START]  
→ (Key in value (acceptable values: 0 to 255))  
→ Press the [ENTER] or the [INTERRUPT] button (stored in memory).  
→ ("100% A" is displayed.)  
\* The larger the adjustment value is, the wider the blank area at the trailing edge becomes (approx. 0.04 mm/step).

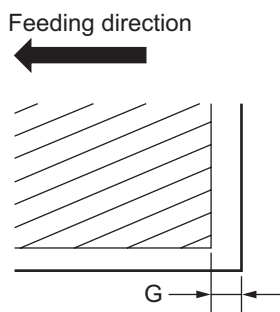


Fig. 3-12



## 3.3 Image Quality Adjustment (Copying Function)

### 3.3.1 Density adjustment

The center density and the density variation controlled by density adjustment keys can be adjusted as follows.

< Adjustment Mode (05) >

Original mode			Item to be adjusted	Remarks
Text/Photo	Photo	Text		
503 (931)	501 (933)	504 (932)	Manual density mode center value	The larger the value is, the darker the image becomes. Acceptable values: 0 to 255
505 (934)	506 (936)	507 (935)	Manual density mode light step value	The larger the value is, the lighter the light side becomes. Acceptable values: 0 to 255
508 (937)	509 (939)	510 (938)	Manual density mode dark step value	The larger the value is, the darker the dark side becomes. Acceptable values: 0 to 255
514 (940)	512 (942)	515 (941)	Automatic density mode	The larger the value is, the darker the image becomes. Acceptable values: 0 to 255

\* The values in "( )" are the adjustment codes of the Custom Mode.

Make a test copy and compare the image obtained with the current settings; if necessary, make adjustment using the following procedure.

<Procedure>

- (1) While pressing [0] and [5] simultaneously, turn the power ON.
- (2) Key in a code and press the [START] button.
- (3) Key in an adjustment value.  
(To correct the keyed-in value, press the [CLEAR] button.)
- (4) Press the [ENTER] or [INTERRUPT] button to store the value. ? The equipment goes back to the ready state.
- (5) Let the equipment restarted and perform copying job.
- (6) If the desired image density has not been attained, repeat step (2) to (5).

### 3.3.2 Gamma slope adjustment

Gamma slope is adjustable with the following codes.

< Adjustment Mode (05) >

Original mode			Item to be adjusted	Remarks
Text/Photo	Photo	Text		
593 (943)	594 (945)	595 (944)	Gamma slope adjustment	One's place: 0: equivalent to the set value 5 1 to 9: Select the gamma slope angle. (The larger the value is, the larger the angle becomes.) Ten's place: 0: equivalent to the set value 5 1 to 9: Select the gamma slope angle of the low density area. (The smaller the value is, the darker the background becomes.)

\* The values in "( )" are the adjustment codes of the Custom Mode.

<Procedure>

Procedure is same as that of  P. 3-21 "3.3.1 Density adjustment".

### 3.3.3 Sharpness adjustment

If you want to make copy images look softer or sharper, perform the following adjustment.

< Adjustment Mode (05) >

Original mode			Item to be adjusted	Remarks
Text/Photo	Photo	Text		
620 (922)	621 (924)	622 (923)	Sharpness adjustment	Key in the following values depending on the original mode. One's place: 1: Text/Photo 2: Photo 5: Text Ten's place: 0: Use Default value 1 to 9: Change intensity (The larger the value is, the sharper the image becomes.) • Example of value entry in case the mode is "Text/Photo". <div style="margin-left: 20px;"> <math display="block">\begin{array}{c} 2 \quad 1 \\ \text{└───┘} \end{array}</math>             Fixed value for Text/Photo mode              Key in a value 0 to 9           </div> <b>Note:</b> When the value "0" is keyed in at the ten's digit, the value is not displayed on LCD screen.

\* The values in "( )" are the adjustment codes of the Custom Mode.

Make a test copy and compare the image obtained with the current settings; if necessary, make adjustment using the following procedure.

<Procedure>

Procedure is same as that of  P. 3-21 "3.3.1 Density adjustment".

### 3.3.4 Setting range correction

The values of the background peak / text peak in the range correction can be switched to “varied” or “fixed” in the following codes.

If they are fixed, the range correction is performed with standard values.

The values of the background peak affect the reproduction of the background density and the values of the text peak affect that of the text density.

< Adjustment Mode (05) >

Original mode			Item to be adjusted	Remarks															
Text/Photo	Photo	Text																	
570 (913)	571 (915)	572 (914)	Range correction for original manually set on the original glass	The following are the default values set for each original mode. Text/Photo: 12, Photo: 12, Text: 22 Each digit stands for: One's place: Automatic density mode Ten's place: Manual density mode The setting conditions possible are as follows: <table><tr><td></td><td>Background peak</td><td>Text peak</td></tr><tr><td>1:</td><td>fixed</td><td>fixed</td></tr><tr><td>2:</td><td>varied</td><td>fixed</td></tr><tr><td>3:</td><td>fixed</td><td>varied</td></tr><tr><td>4:</td><td>varied</td><td>varied</td></tr></table>		Background peak	Text peak	1:	fixed	fixed	2:	varied	fixed	3:	fixed	varied	4:	varied	varied
	Background peak	Text peak																	
1:	fixed	fixed																	
2:	varied	fixed																	
3:	fixed	varied																	
4:	varied	varied																	
693 (916)	694 (918)	695 (917)	Range correction for original set on the RADF																

\* The values in "( )" are the adjustment codes of the Custom Mode.

Make a test copy and compare the image obtained with the current settings; if necessary, make adjustment using the following procedure.

<Procedure>

Procedure is same as that of  P. 3-21 "3.3.1 Density adjustment".

### 3.3.5 Setting range correction (Adjustment of background peak)

The levels of the background peak for the range correction can be set at the following codes.

< Adjustment Mode (05) >

Original mode			Item to be adjusted	Remarks
Text/Photo	Photo	Text		
532 (919)	533 (921)	534 (920)	Background peak for range correction	When the value increases, the background (low density area) of the image is not output. Acceptable values: 0 to 255 (Default: Text/Photo: 40, Photo: 16, Text: 64)

\* The values in "( )" are the adjustment codes of the Custom Mode.

Make a test copy and compare the image obtained with the current settings; if necessary, make adjustment using the following procedure.

<Procedure>

Procedure is same as that of  P. 3-21 "3.3.1 Density adjustment".

### 3.3.6 Adjustment of smudged/faint text

The smudged/faint text can be set at the following codes.

< Adjustment Mode (05) >

< e-STUDIO 350/450 >

Original mode	Item to be adjusted	Remarks
Text/Photo		
653 (928)	Adjustment of smudged/faint spotted text	When the value increases, the faint text is improved. When the value decreases, the smudged text is improved. Acceptable values: 0 to 255 (Default: 192) <b>Note:</b> Remember the image specifications and life span of the replacing parts may not meet the standard when the setting value is changed from the default value.

< e-STUDIO 352/353/452/453 >

Original mode	Item to be adjusted	Remarks
Text/Photo		
648 (928)	Adjustment of smudged/faint spotted text	When the value increases, the faint text is improved. When the value decreases, the smudged text is improved. Acceptable values: 0 to 4 (Default: 2) <b>Note:</b> Remember the image specifications and life span of the replacing parts may not meet the standard when the setting value is changed from the default value.

\* The values in "( )" are the adjustment codes of the Custom Mode.  
Make a test copy and compare the image obtained with the current settings; if necessary, make adjustment using the following procedure.

<Procedure>

Procedure is same as that of  P. 3-21 "3.3.1 Density adjustment".

### 3.3.7 Gamma balance adjustment < e-STUDIO 352/353/452/453 >

The gamma balance is adjusted by adjusting the density at the Black Mode. The adjustment is performed by selecting its density area from the following: low density, medium density and high density.

< Adjustment Mode (05) >

Language and screen				Item to be adjusted	Remarks
Smooth (PS)	Detail (PS)	Smooth (PCL)	Detail (PCL)		
596-0	597-0	598-0	599-0	Low density	The larger the value is, the density of the item to be adjusted becomes darker. Acceptable values: 0 to 255. (Default: 128)
596-1	597-1	598-1	599-1	Medium density	
596-2	597-2	598-2	599-2	High density	

## 3.4 Image Quality Adjustment (Printing Function)

### 3.4.1 Adjustment of smudged/faint text

The smudged/faint text can be set at the following codes.

< Adjustment Mode (05) >

Language		Remarks
PS	PCL	
654	655	When the value increases, the smudged text is improved. When the value decreases, the faint text is improved. Acceptable values: 0 to 9 (Default: 5)

<Procedure>

- (1) While pressing [0] and [5] simultaneously, turn the power ON.
- (2) Key in a code and press the [START] button.
- (3) Key in an adjustment value. (To correct the keyed-in value, press the [CLEAR] button.)
- (4) Press the [ENTER] or [INTERRUPT] button to store the value. The equipment goes back to the ready state.
- (5) Let the equipment restarted and perform printing job.
- (6) If the desired text density has not been attained, repeat step (2) to (5).

### 3.4.2 Adjustment of image density

The image density level is adjustable both at standard and toner saving modes.

< Adjustment Mode (05) >

Toner mode		Item to be adjusted	Remarks
Standard	Toner saving		
672-0 to 4	676-0 to 4	Adjustment of image density	When the value is decreased, text becomes lighter. Acceptable values: 0 to 10 <b>Notes:</b> <ol style="list-style-type: none"><li>1. Set not to reverse the large and small number of the setting value corresponding to the sub code. Ex.) When the image density level for 672-0, 672-1, 672-2, 672-3, and 672-4 is assumed to be "A", "B", "C", "D", and "E" respectively, they should have the following correlation: <math>A \leq B \leq C \leq D \leq E</math></li><li>2. Remember that the image specifications and life span of the replacing parts may not meet the standard when the setting value is changed from the default value.</li></ol>

<Procedure>

- (1) While pressing [0] and [5] simultaneously, turn the power ON.
- (2) Key in a code and press the [START] button.
- (3) Key in the sub code (0, 1, 2, 3 or 4), and press the [START] button.
- (4) Key in an adjustment value. (To correct the keyed-in value, press the [CLEAR] button.)
- (5) Press the [ENTER] or [INTERRUPT] button to store the value in memory. The equipment goes back to the ready state.
- (6) For resetting the value, repeat step (2) to (5).
- (7) Let the equipment restarted and perform printing job.
- (8) If the desired image density has not been attained, repeat step (2) to (7).

## 3.5 Image Quality Adjustment (Scanning Function)

### 3.5.1 Density adjustment

Adjusts the center density and the variation of density adjustment button.

< Adjustment Mode (05) >

Original mode			Item to be adjusted	Remarks
Text/Photo	Photo	Text		
845	847	846	Manual density mode center value	The larger the value is, the darker the image becomes. Acceptable values: 0 to 255
850	852	851	Manual density mode light step value	The larger the value is, the lighter the light side becomes. Acceptable values: 0 to 255
855	857	856	Manual density mode dark step value	The larger the value is, the darker the dark side becomes. Acceptable values: 0 to 255
860	862	861	Automatic density mode	The larger the value is, the darker the image becomes. Acceptable values: 0 to 255

<Procedure>

- (1) While pressing [0] and [5] simultaneously, turn the power ON.
- (2) Key in a code and press the [START] button.
- (3) Key in an adjustment value. (To correct the keyed-in value, press the [CLEAR] button.)
- (4) Press the [ENTER] or [INTERRUPT] button to store the value. The equipment goes back to the ready state.
- (5) Let the equipment restarted and perform scanning job.
- (6) If the desired image density has not been attained, repeat step (2) to (5).

### 3.5.2 Sharpness adjustment

If you want to make scan images look softer or sharper, perform the following adjustment.

< Adjustment Mode (05) >

Original mode			Item to be adjusted	Remarks
Text/Photo	Photo	Text		
865-0	867-0	866-0	Reproduction ratio: 25% to 40%	Key in the following values depending on the original mode. One's place: 1: Text/Photo    5: Photo    2: Text Ten's place: 0: Use Default value 1 to 9: Change intensity • The larger the value is, the sharper the image becomes.) • Example of value entry in case the mode is "Text/Photo". <div style="margin-left: 40px;"> <math>\begin{array}{c} 2 \quad 1 \\ \hline \end{array}</math>             Fixed value for Text/Photo mode              Key in a value 0 to 9           </div> <b>Note:</b> When the value "0" is keyed in at the ten's digit, the value is not displayed on LCD screen.
865-1	867-1	866-1	Reproduction ratio: 41% to 80%	
865-2	867-2	866-2	Reproduction ratio: 81% to 400%	

#### <Procedure>

- (1) While pressing [0] and [5] simultaneously, turn the power ON.
- (2) Key in a code and press the [START] button.
- (3) Key in the sub code (0, 1 or 2), and press the [START] button.
- (4) Key in an adjustment value. (To correct the keyed-in value, press the [CLEAR] button.)
- (5) Press the [ENTER] or [INTERRUPT] button to store the value in memory. The equipment goes back to the ready state.
- (6) For resetting the value, repeat step (2) to (5).
- (7) Let the equipment restarted and perform scanning job.
- (8) If the desired image density has not been attained, repeat step (2) to (7).

### 3.5.3 Setting range correction

The values of the background peak / text peak in the range correction can be switched to “varied” or “fixed” in the following codes.

If they are fixed, the range correction is performed with standard values.

The values of the background peak affect the reproduction of the background density and the values of the text peak affect that of the text density.

< Adjustment Mode (05) >

Original mode			Item to be adjusted	Remarks
Text/Photo	Photo	Text		
825	827	826	Range correction for original manually set on the original glass	The following are the default values set for each original mode. Text/Photo: 12, Photo: 12, Text: 12 Each digit stands for: One's place: Automatic density mode Ten's place: Manual density mode The setting conditions possible are as follows: <div style="display: flex; justify-content: space-around;"> <div>Background peak</div> <div>Text peak</div> </div> 1:           fixed               fixed 2:           varied             fixed 3:           fixed              varied 4:           varied             varied
830	832	831	Range correction for original set on the RADF	

<Procedure>

Procedure is same as that of  P. 3-26 "3.5.1 Density adjustment".

### 3.5.4 Setting range correction (Adjustment of background peak)

The levels of the background peak for the range correction can be set at the following codes.

< Adjustment Mode (05) >

Original mode			Item to be adjusted	Remarks
Text/Photo	Photo	Text		
835	837	836	Background peak for range correction	When the value increases, the background (low density area) of the image is not output. Acceptable values: 0 to 255 (Default: text/photo: 48, photo: 40, text: 48)

<Procedure>

Procedure is same as that of  P. 3-26 "3.5.1 Density adjustment".



## 3.6 Adjustment of High-Voltage Transformer

When replacing the high-voltage transformer, checking each output adjustment of main charger, developer bias, transfer charger and separation charger is needed.

### 3.6.1 Adjustment

#### [ 1 ] Preparation

		Developer Bias	Main Charger	Transfer Charger	Separation Charger
Developer unit		Disconnect the connector.	Take off from the equipment. (Not used)		
Cleaner unit		Take off the drum and install the cleaner unit in the equipment.	Install the unit together with the current measuring jig in the equipment. <b>Note:</b> Connect the green cable of the current measuring jig to ground on the equipment frame. Refer to (a) Installation of current measuring jig.		
Developer unit connector of the equipment		Not connected	Connect the jig detection connector with the developer unit connector of the equipment.		
Digital Tester	(+) terminal	Connect in the hole at the front side of the developer unit.	Connect to the main charger case (between the case and terminal).	Connect with the red cable of the current measuring jig.	
	(-) terminal	Connect to the machine frame (to ground).	Connect with the white cable of the current measuring jig (to ground).		
	Function switch	DC			AC
	Full-scale	1,000 V		2 V	
	Remarks	Use a digital tester with an input resistance of 10 M. (RMS value) or higher.			
How to turn ON the power		Attach the door switch jig and press the front cover opening/closing switch while the front cover is opened.			
Remarks		Refer to (b) Connection for developer bias adjustment.	Refer to (c) Connection for main charger adjustment.	Refer to (d) Connection for transfer/separation charger adjustment.	

## [ 1-1 ] Installation of the current measuring jig

### Notes:

- Clean the toner recovery auger when the toner is sticking to it. Then attach the jig.
- Do not damage the tip of the separation fingers.

- (1) Open the front cover.

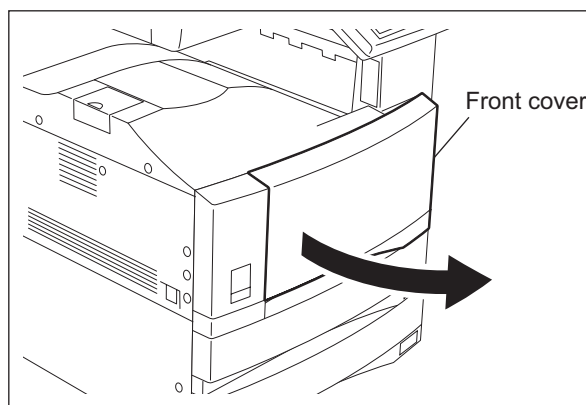


Fig. 3-13

- (2) Remove the toner bag.

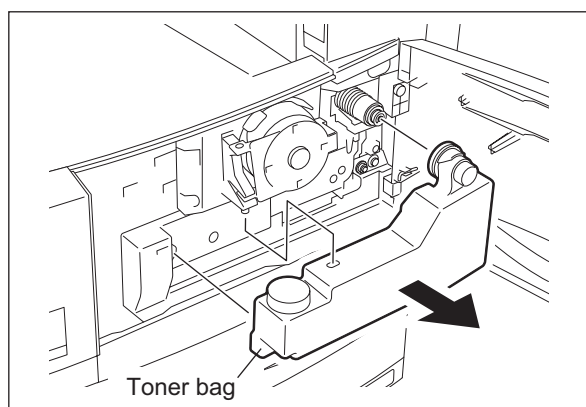


Fig. 3-14

- (3) Pull up the hinge pin and extract it.  
(4) Take off the front cover.

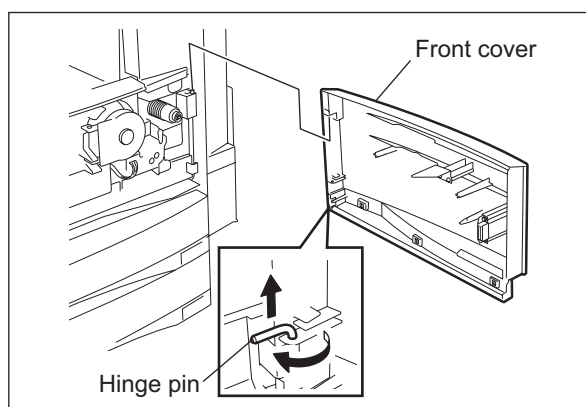


Fig. 3-15

- (5) Release the latches and take off the toner bag full detection sensor-2.
- (6) Loosen 2 screws and take off the cleaner unit from the equipment.

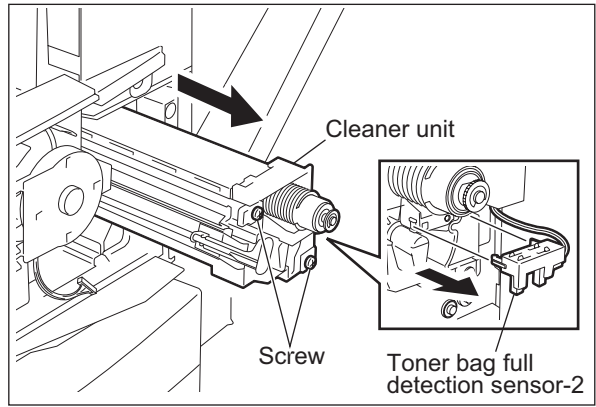


Fig. 3-16

- (7) Release the latch and take off the main charger unit.

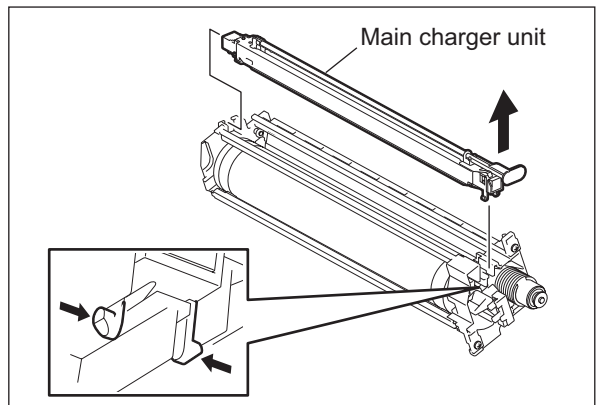


Fig. 3-17

- (8) Release the latch and take off the cleaner stay.

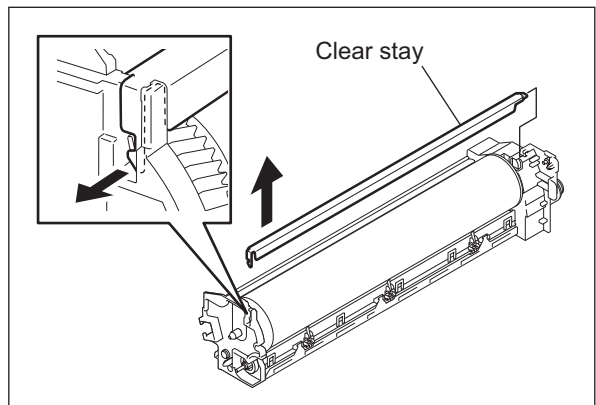


Fig. 3-18

- (9) Rotate the lever of the drum shaft and release the lock. Then pull out the drum shaft.

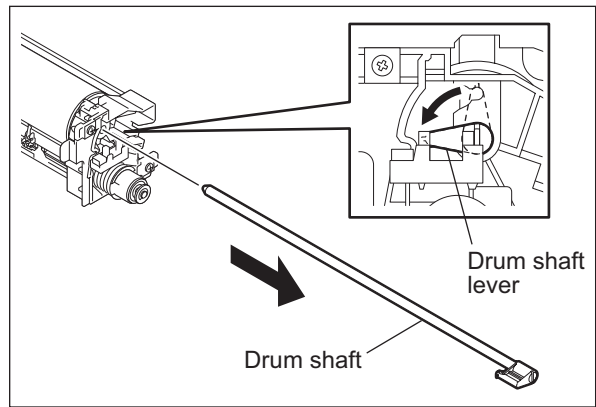


Fig. 3-19

- (10) Take off the drum.

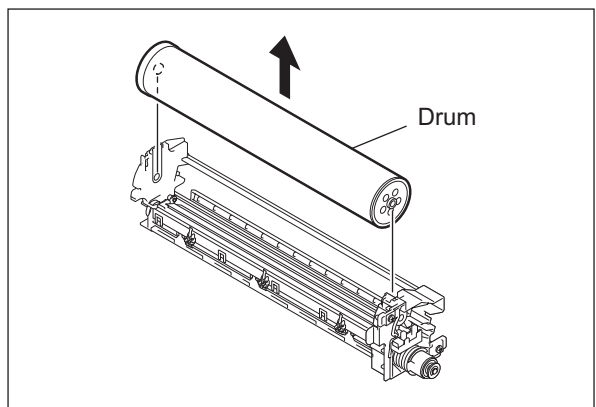


Fig. 3-20

- (11) Press down the drum cleaning blade and fix the blade with the blade releasing jig so that it will not rebound.

**Note:**

Do not touch the edge of the drum cleaning blade.

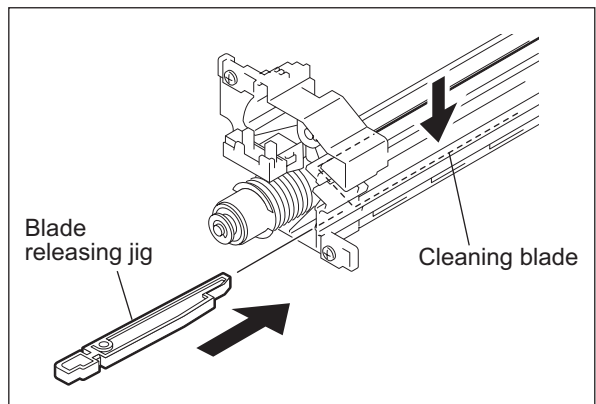
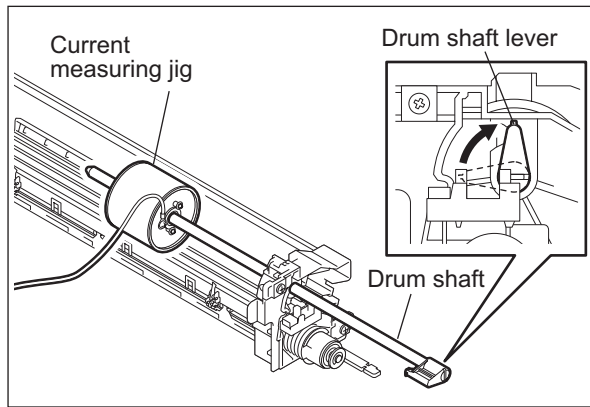


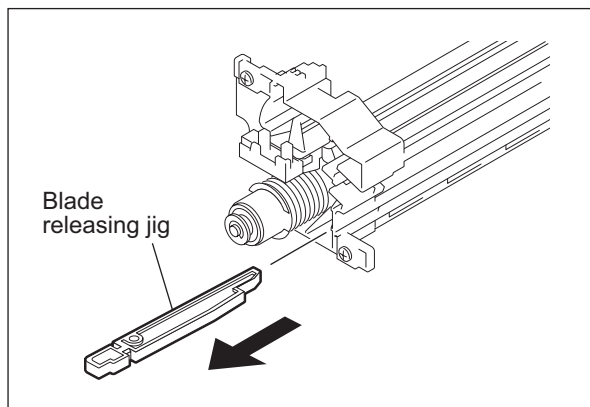
Fig. 3-21

- (12) Put through the current measuring jig into the drum shaft and fix it to the cleaner unit.
- (13) Rotate the lever of the drum shaft to fix the drum shaft.



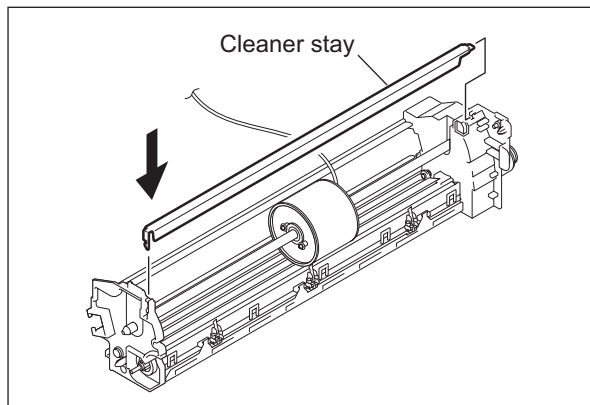
**Fig. 3-22**

- (14) Remove the blade releasing jig.



**Fig. 3-23**

- (15) Install the cleaner stay.



**Fig. 3-24**

(16) Install the main charger unit.

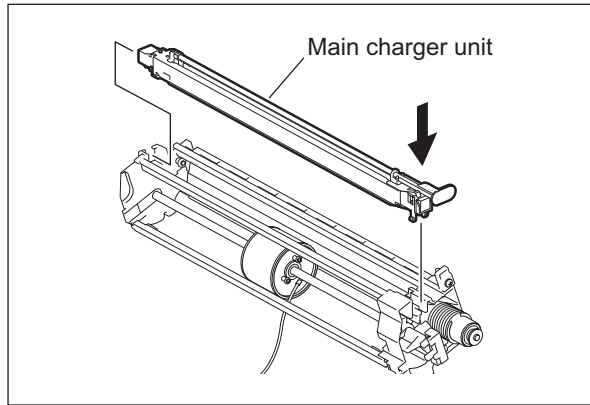


Fig. 3-25

(17) Install the cleaner unit and fix it with 2 screws.

(18) Install the toner bag full detection sensor-2.

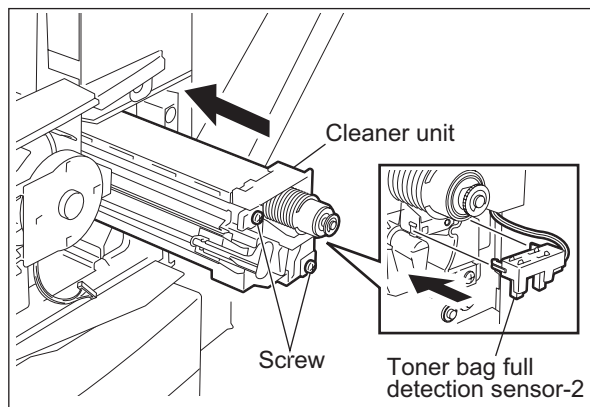


Fig. 3-26

(19) Fix the green cable of the current measuring jig to the frame of the equipment, and connect the jig detection connector to the connector of the developer unit in the equipment.

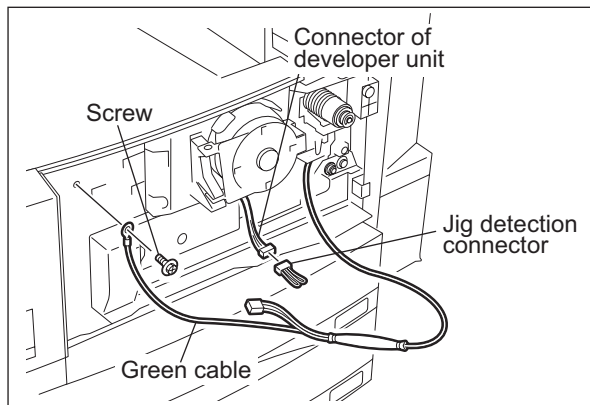


Fig. 3-27

- (20) Fix the front door switch to be closed with the door switch jig.

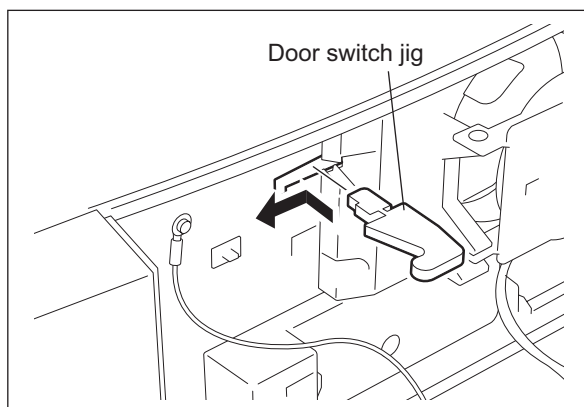


Fig. 3-28

- (21) After the adjustment, remove the jigs in a reverse procedure to return it to the original state.

## [ 1-2 ] Connection

- (1) Connection for developer bias adjustment

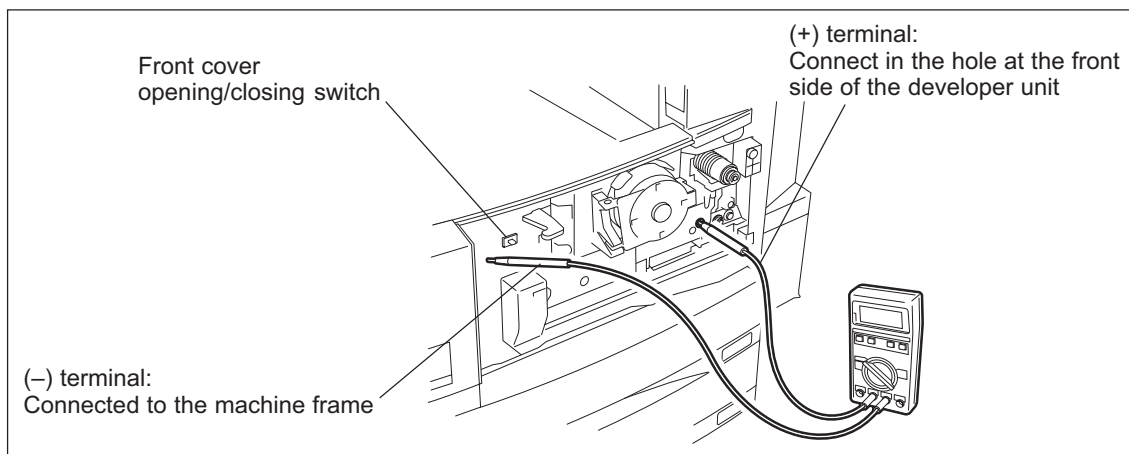


Fig. 3-29

(2) Connection for main charger adjustment

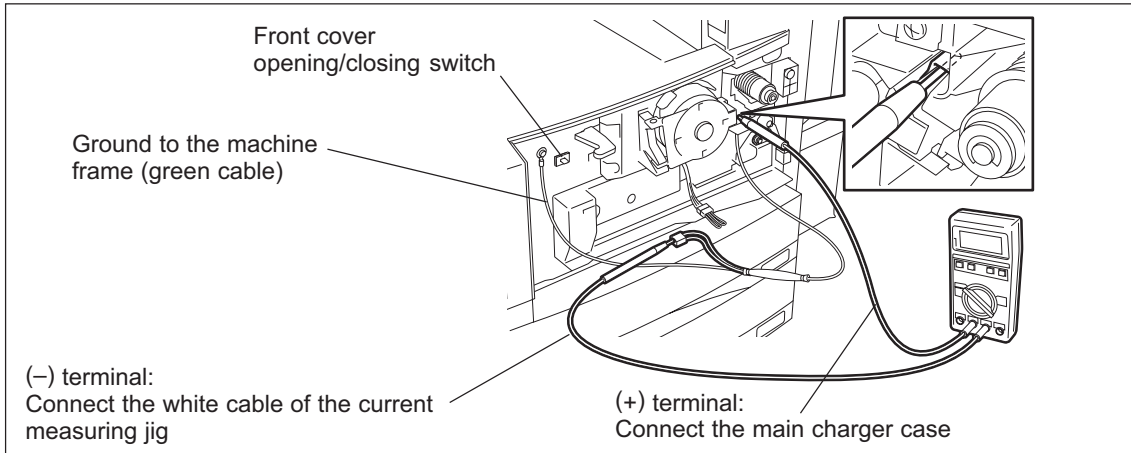


Fig. 3-30

(3) Connection for transfer/separation charger adjustment

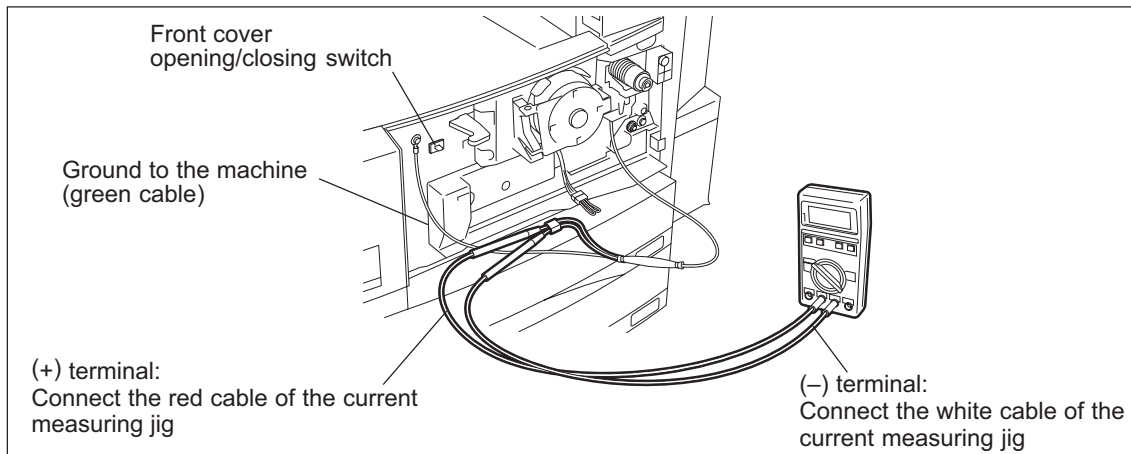


Fig. 3-31

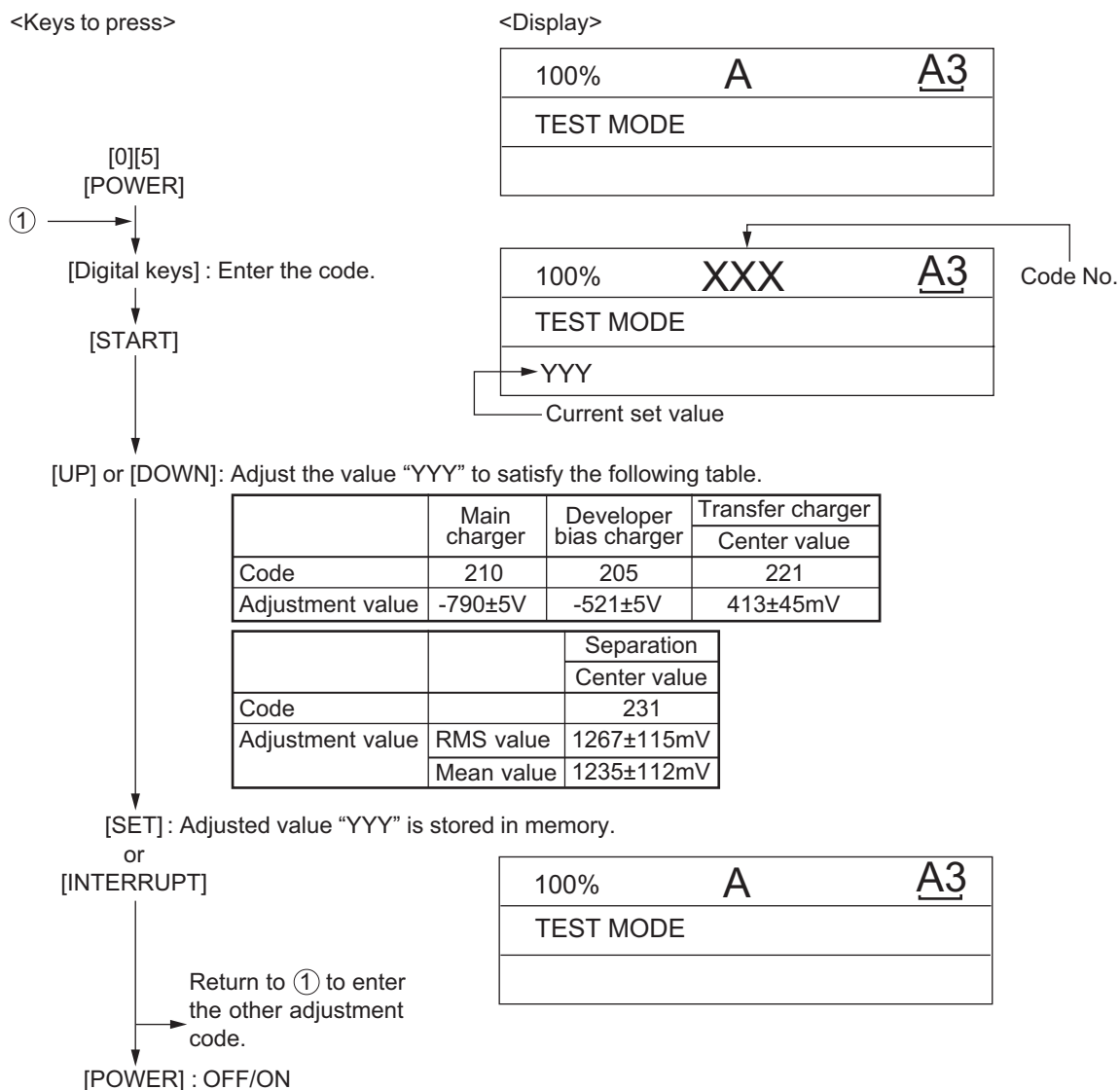


## [ 2 ] Operation

### Note:

When adjusting output of high-voltage transformer, make sure to use a current measuring jig (except developer bias).

Connect the digital testers as described in (1) Preparation, and follow the procedure on the next page to adjust the output from the main charger, developer bias charger, transfer charger and separation charger.



## 3.6.2 Precautions

### [A] Developer bias

#### Note for adjustment

Adjust the developer bias if fogging occurs over the entire image even though the main charger grid voltage and toner density are appropriate. However, the following may occur if the developer bias is lowered too much:

- Image contrast becomes low.
- Image is patchy or blurred.
- The carrier in the developer material adheres to the photoconductive drum, causing scratches around the cleaner.

### [B] Transfer

#### Items to check before adjustment

Blotched image or poor transfer can be also caused by matters other than defective adjustment of transfer output. Check the following items before adjusting the transfer charger. If there is no problem, adjust the output of the transfer charger.

- Is the charger wire incorrectly installed or dirty? Is the transfer guide deformed?
- Is the developer unit properly installed? Is the developer magnetic brush in contact with the drum? Is the developer sleeve rotating during printing? Is the toner density low?
- Is the copy paper fed straight? Is the copy paper abnormally moist?
- Is the rotation of the registration roller normal?
- Is the output of the transfer guide bias normal?
- Is the separation output different from the set value?
- Is the developer bias value an appropriate one?
- Are the transfer/separation charger case and the drum shaft grounded? Is the high-voltage transformer grounded?
- Is the transfer insulation film (transparent film attached to the transfer guide) damaged or deformed?

#### Note for adjustment

##### When blotched image appear:

- If blotched image appear in halftone areas, lower the transfer output value. Remember that transfer performance becomes low if the transfer output value is lowered too much.

##### When transfer is poor:

Increase the transfer output value under the following conditions. Remember that blotched image appear if the transfer output value is increased too much.

- Transfer is poor even though the charger wire is not dirty.
- Thick paper has been frequently used.

#### Note:

The Thick Paper Mode is recommendable when thick paper is used.

Increase the transfer output value only to prevent a poor transfer without selecting the Thick Paper Mode when thick paper is frequently used.

## [C] Separation

### Items to check before adjustment

Poor paper separation from the drum can be also caused by matters other than defective adjustment of the separation output. Check the following items before making an adjustment. If there is no problem, adjust the output of the separation charger.

- Is the charger wire incorrectly installed or dirty?
- Is the developer unit installed properly? Is the developer magnetic brush in contact with the drum? Is the developer sleeve rotating during printing? Is the toner density low?
- Is the copy paper fed straight? Is the copy paper abnormally moist?
- Is the rotation of the registration roller normal?
- Is the output of the main charger normal?
- Is the transfer output different from the set value?
- Is the transfer/separation charger case grounded? Is the high-voltage transformer grounded?
- Is the sub-separation fan rotating?
- Is the separation finger in contact with the drum surface?

### Note for adjustment

#### When poor paper separation occurs:

Increase the separation output value under the following conditions. Remember that if the separation output value is increased too much, blotched image occurs and separation performance becomes low.

- Poor separation occurs even though the charger wire is not dirty.
- Thin paper has been frequently used.

#### When poor transfer occurs:

- Decrease the separation output value when poor transfer occurs. Remember that the separation performance becomes low if the separation output value is decreased too much.

## 3.7 Adjustment of the Scanner Section

### 3.7.1 Carriages

#### [A] Installing carriage wires

When replacing the carriage wires, refer illustrations below:

[Front side]

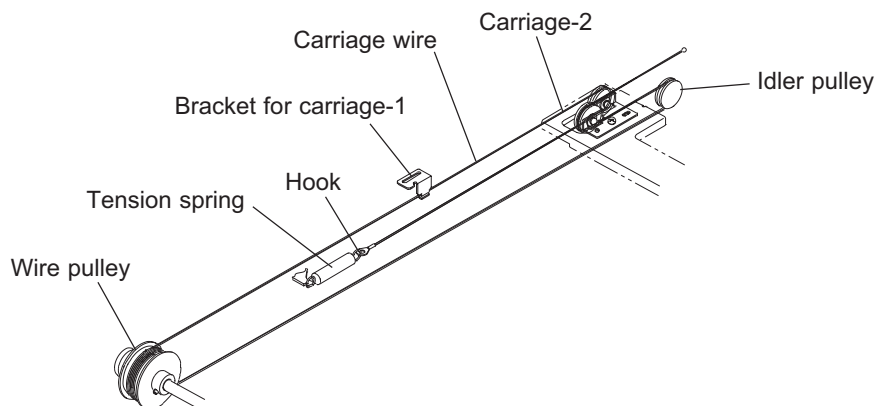


Fig. 3-32

[Rear side]

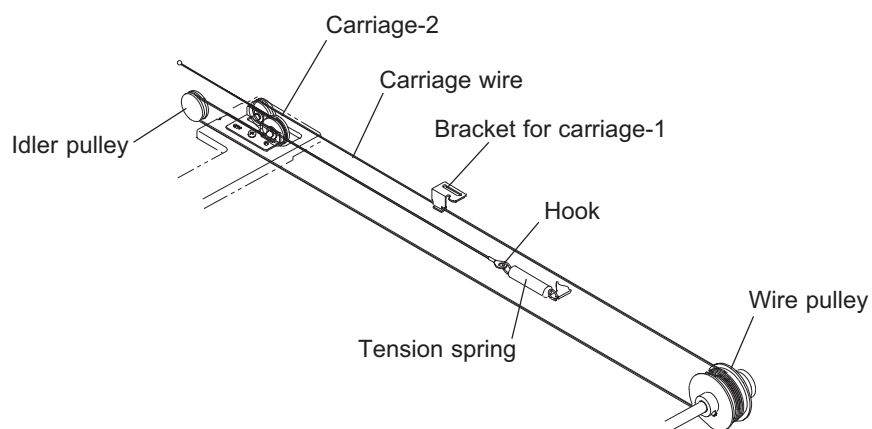


Fig. 3-33

Adjustment of the carriage wire tension is not necessary since a certain tension is applied to the carriage wires by the tension springs.

**Note:**

Make sure the tension applied to the wire is normal.

## [B] Adjusting carriages-1 and -2 positions

- (1) Move the carriage-2 toward the exit side.
- (2) Loosen the screws fixing the front side pulley bracket, make the sections A and B of the carriage-2 touch with the inside of the exit side frame and screw them up.

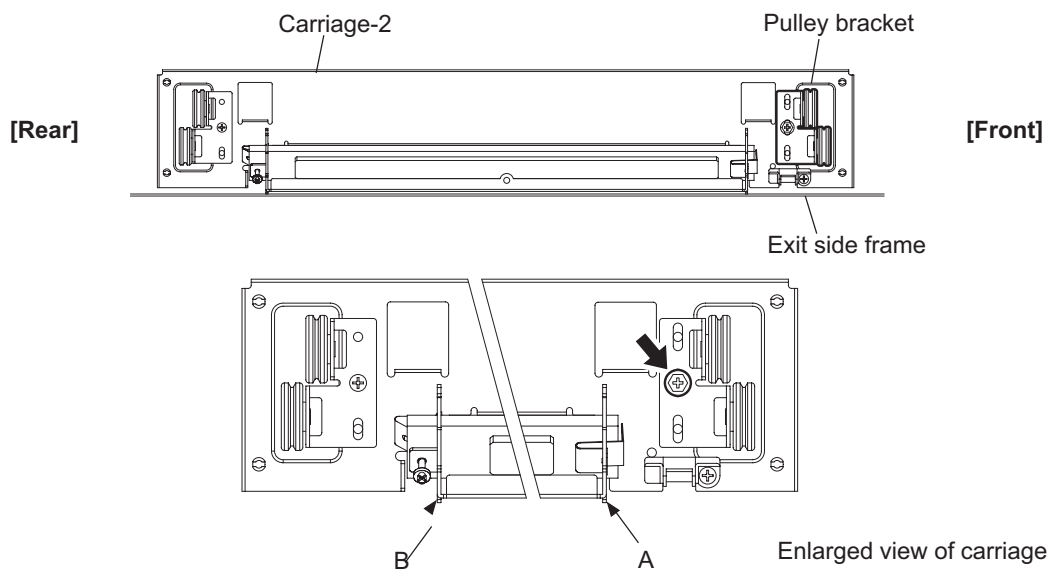


Fig. 3-34

- (3) Put the carriage-1 on the rail, make the sections C and D of it touch with the inside of the exit side frame and screw up the front/rear sides of the bracket to fix it.

**Note:**

Make sure that the sections A and B of the carriage-2 touch with the exit side frame.

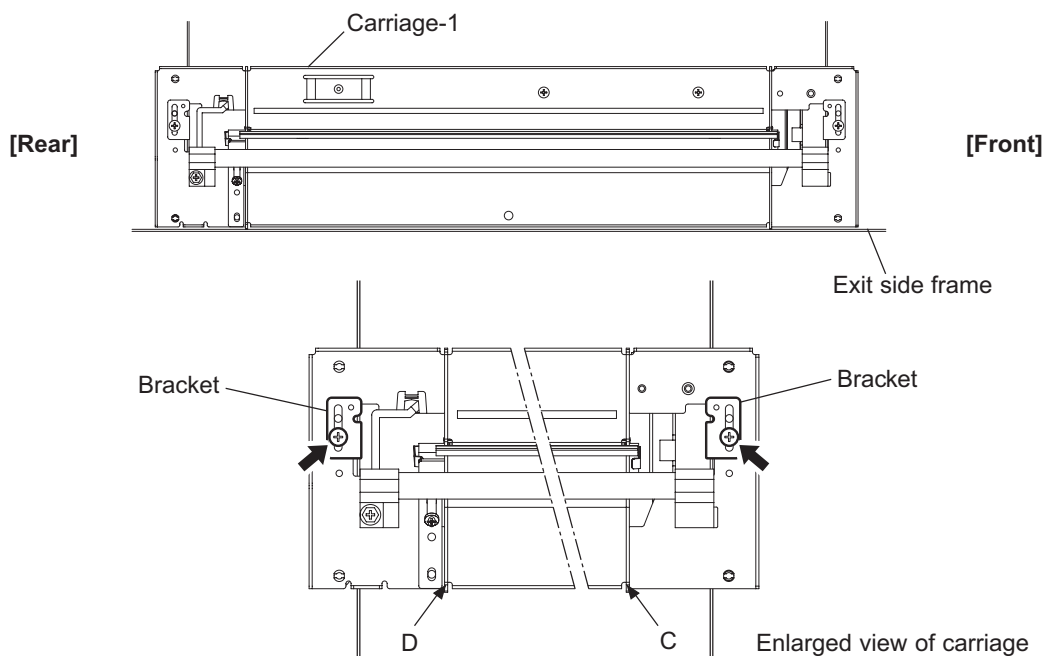


Fig. 3-35

## [A] Assembling carriage wires

### Winding the wire around the wire pulley:

- (1) Pull the  $\varnothing 3$  ball terminal located at the center of the wire into a hole on the wire pulley. One end of the wire with a hook attached comes to the outside.
- (2) Wind the wires around the wire pulleys of the front and rear sides. The number of turns to be wound are as follows:
  - 2 turns toward the opposite side of the boss
  - 4 turns toward the boss side

#### **Note:**

Pay attention to the following when the wires are wound around the pulleys:

- Do not twist the wire.
- Wind the wires tightly so that they are in complete contact with the surface of the pulleys.
- Each turn should be pushed against the previously wound turn so that there is no space between them.

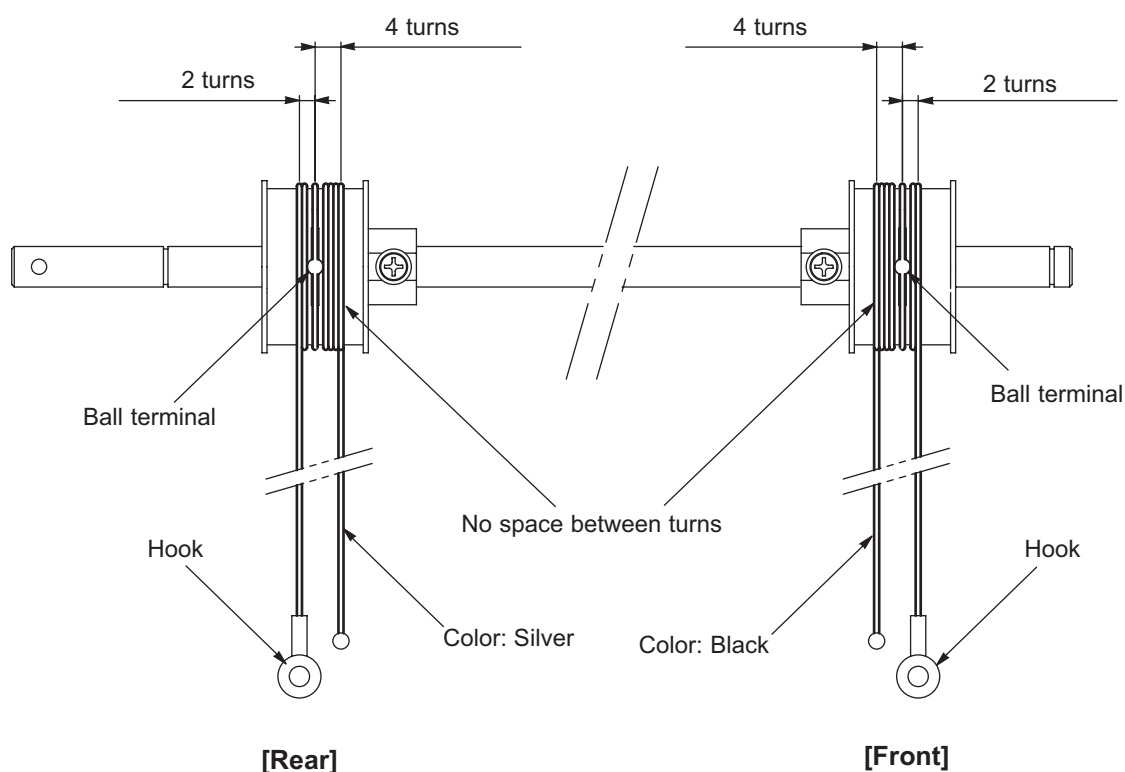
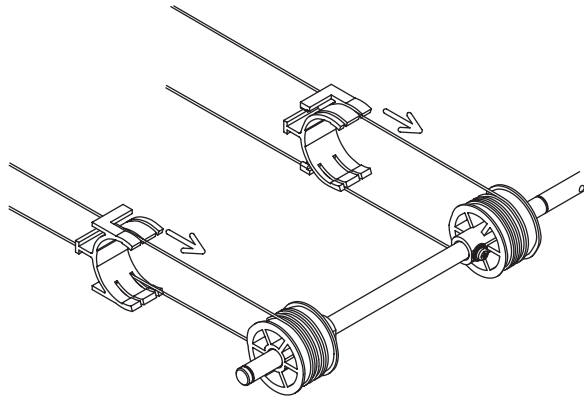


Fig. 3-36

(3) After winding the wires around the pulleys, attach the wire holder jigs not to loosen the wires.

**Notes:**

1. When the wire holder jig is attached, make sure that the wire is not shifted or loosened.
2. The wire should come out of the slot of the wire holder jig and be passed under the arm of it.



**Fig. 3-37**



### 3.7.2 Lens unit

#### [A] Replacing the lens unit

- The lens unit must not be readjusted and some part of its components must not be replaced in the field since the unit is precisely adjusted. If any of the components is defective, replace the whole unit.
- When replacing the unit, do not loosen or remove the 10 screws indicated with the arrows.

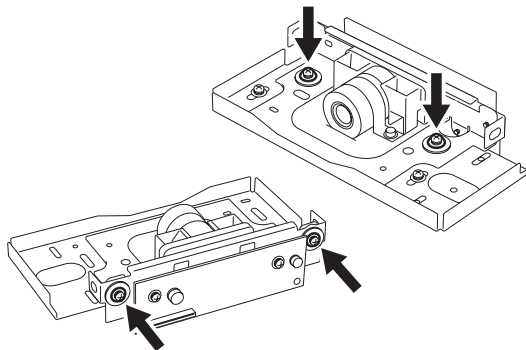


Fig. 3-38

- Handle the unit with care. Do not hold the lens and adjusted part (hold the unit as shown below).

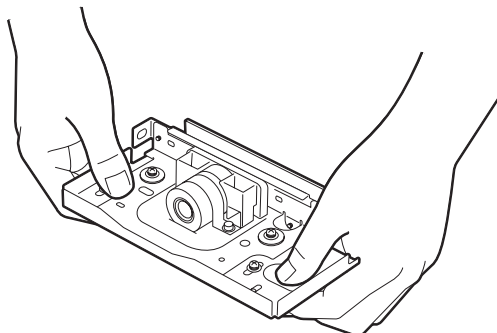


Fig. 3-39

## [B] Adjustment of the magnification ratio of the lens

### Notes:

1. Perform this adjustment only when the lens unit is taken off or replaced.
  2. Make sure that the primary scanning reproduction ratio (printer section) is correct before this adjustment.
- (1) Place a ruler on the original glass (in the primary scanning direction) and make a copy on A4/LT-sized paper at 100% reproduction ratio.
- (2) Compare the copied ruler with the actual ruler.

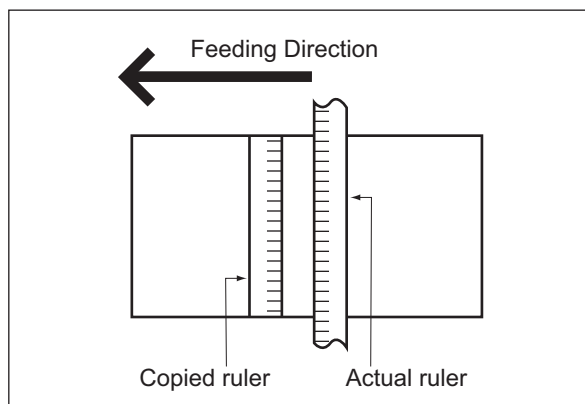


Fig. 3-40

- (3) If each mark on the rulers differs, perform the adjustment with the following procedures.

### <Procedure>

- (1) Take off the original glass and lens cover.
- (2) Loosen 2 screws fixing the lens unit.

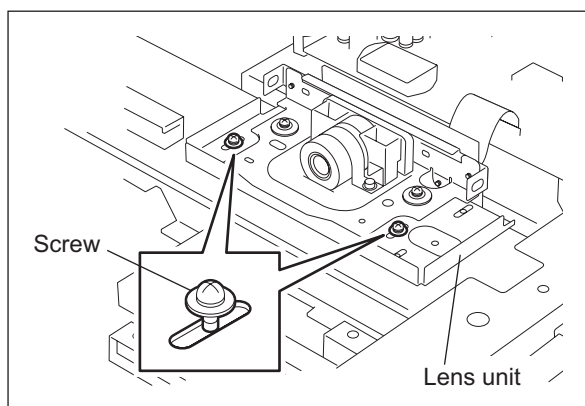


Fig. 3-41

- (3) Slide the lens unit to the right or left direction using the marks on the lens base as a guide. (Slide right when the copied ruler is magnified and slide left when the copied ruler is demagnified.) The following table shows how the reproduction ratio difference between the copied ruler and actual ruler corresponds to the movement amount of the lens unit.

Reproduction-ratio error	Movement amount of unit
0.1%	0.5 mm
0.2%	0.9 mm
0.3%	1.4 mm
0.4%	1.8 mm
0.5%	2.3 mm
0.6%	2.7 mm
0.7%	3.2 mm
0.8%	3.6 mm
0.9%	4.1 mm
1.0%	4.5 mm

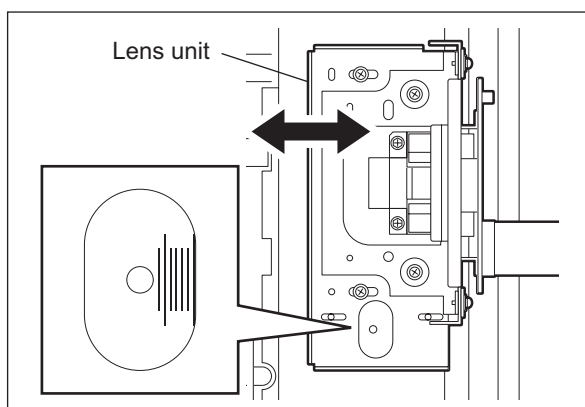


Fig. 3-42

**Note:**

Fine adjustment can be made in the “Reproduction ratio of primary scanning direction (printer)” on the copied ruler and actual ruler match.

- (4) Tighten 2 screws fixing the lens unit.
- (5) Attach the lens cover and original glass. Make a copy to confirm the reproduction ratio.
- (6) Repeat the procedure 1 to 5 until the marks on the copied ruler and actual ruler match.

## 3.8 Adjustment of the Paper Feeding System

### 3.8.1 Sheet sideways deviation caused by paper feeding

#### <Procedure>

- The center of the printed image shifts to the front side. → Move the guide to the front side (Arrow (A) direction in the lower figure).
- The center of the printed image shifts to the rear side. → Move the guide to the rear side (Arrow (B) direction in the lower figure).

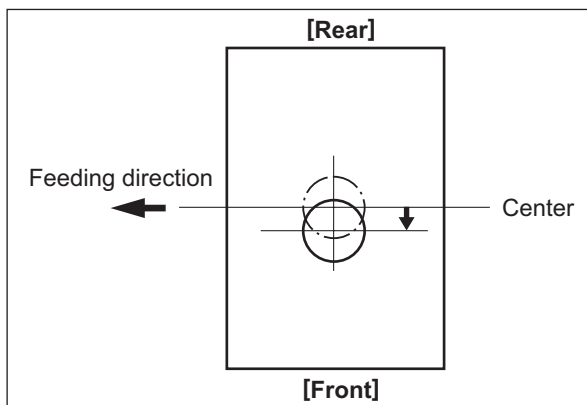


Fig. 3-43

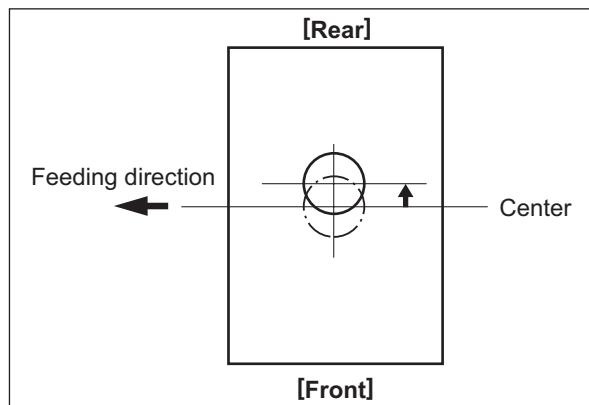


Fig. 3-44

- Bypass feeding

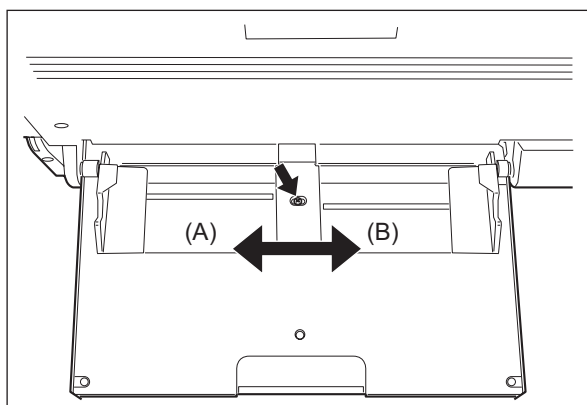


Fig. 3-45

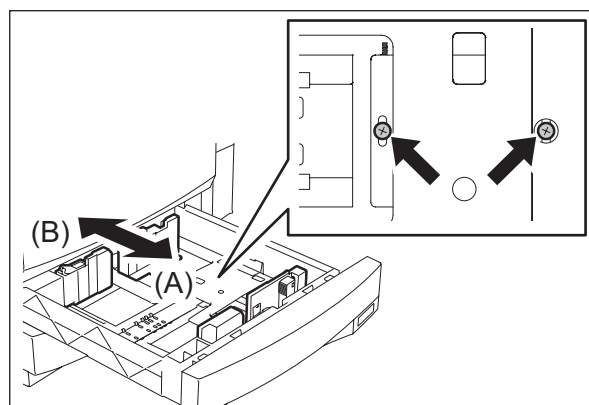


Fig. 3-46

## 3.9 Adjustment of Developer Unit

### 3.9.1 Doctor-to-sleeve gap

Adjustment tool to use: Doctor-sleeve jig

- (1) Take out the developer unit from the equipment.
- (2) Take off the developer material cover and discharge the developer material.

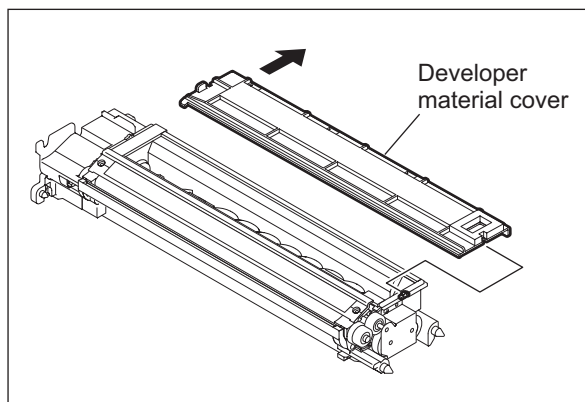


Fig. 3-47

- (3) Remove 2 screws and take off the developer sleeve cover.

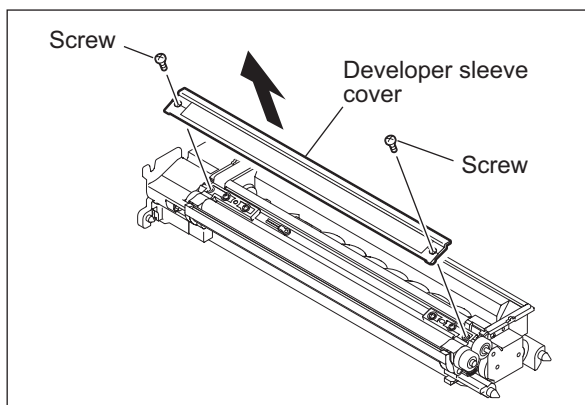


Fig. 3-48

- (4) Loosen 4 screws fixing the doctor blade.

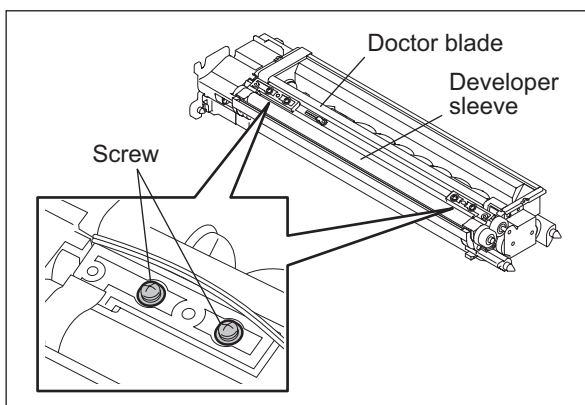
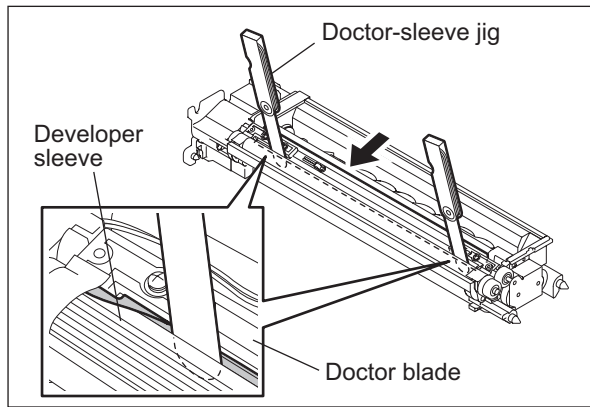


Fig. 3-49

- (5) Lift up the toner scattering prevention sheet and insert the gauge “0.45” of the doctor-sleeve jig into the gap between the developer sleeve and doctor blade. Tighten the screws while pressing the doctor blade to the doctor-sleeve jig lightly.

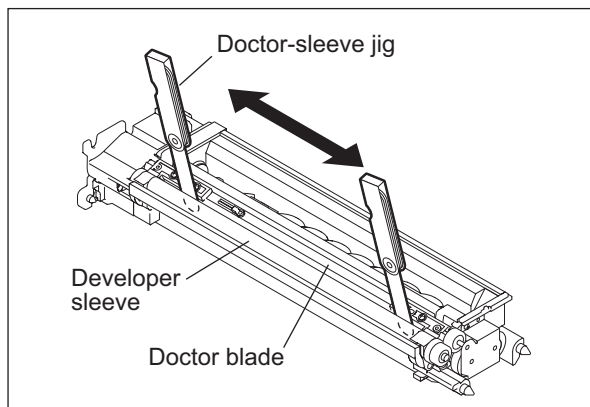
**Note:**

Make sure the mark on the developer sleeve faces the blade when adjusting the gap.



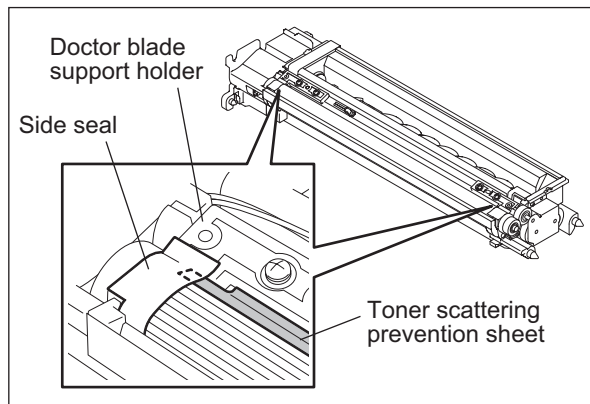
**Fig. 3-50**

- (6) Insert the gauge “0.40” of the doctor-sleeve jig into the gap between the developer sleeve and doctor blade. Confirm that the jig moves smoothly to the front and rear side, and the gauge “0.50” cannot be inserted into the gap.



**Fig. 3-51**

- (7) Confirm that the both ends of the toner scattering prevention sheet are inserted between the developer sleeve and doctor blade support holder, and the side seals are attached on the toner scattering prevention sheet.

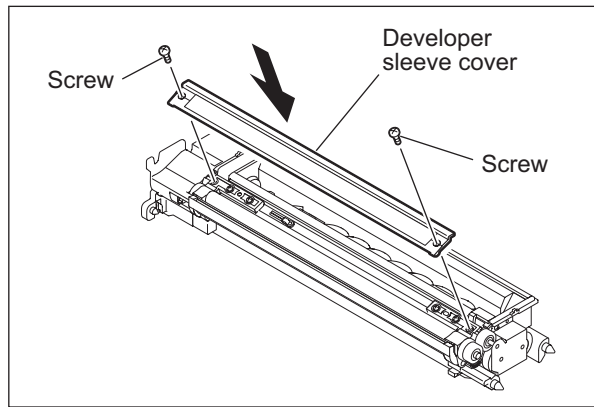


**Fig. 3-52**

- (8) Attach the developer sleeve cover and tighten 2 screws.

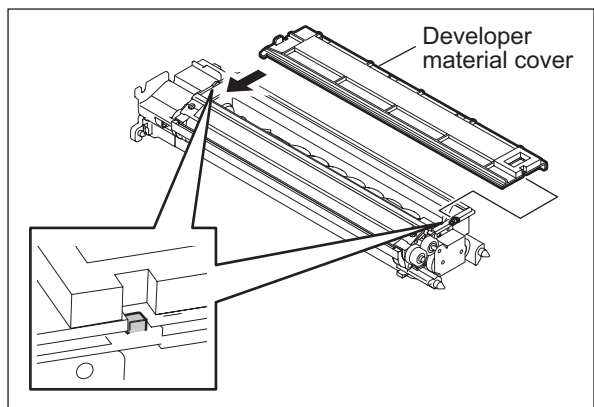
**Notes:**

1. Tighten the screws from the one on the front side.
2. Make sure that the developer sleeve cover is correctly attached otherwise it will be deformed.
3. Make sure that the toner scattering prevention sheet is not caught up in the developer sleeve cover.



**Fig. 3-53**

- (9) Attach the developer material cover.



**Fig. 3-54**

## 3.10 Adjustment of the RADF (MR-3015)

### 3.10.1 Adjustment of RADF position

It is mainly performed at the installation. It is also required when the RADF is dislocated for some reason such as moving the equipment.

Remove the platen sheet during adjustment.

- (1) Open the RADF and then attach 2 positioning pins to the equipment.  
(The positioning pins have been attached at the rear of the right-hand hinge of the RADF.)

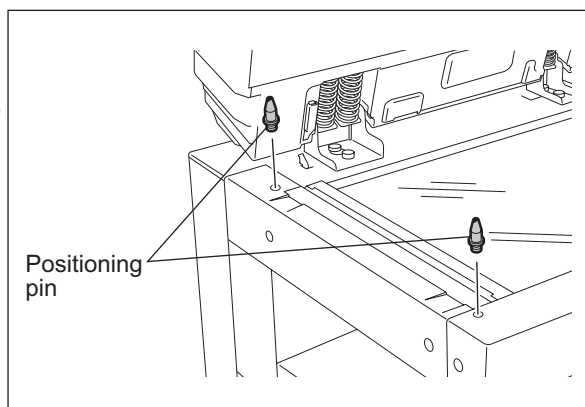


Fig. 3-55

- (2) Close the RADF to check that the positioning pins fit smoothly into the holes on the RADF. If they do not, adjust them according to the following procedure.

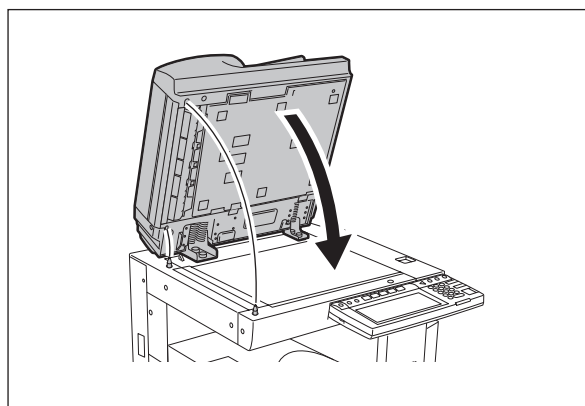


Fig. 3-56



- (3) Loosen the stepped screw 1 turn and 2 screws on the adjustment plate a half turn (status of temporary fixing).

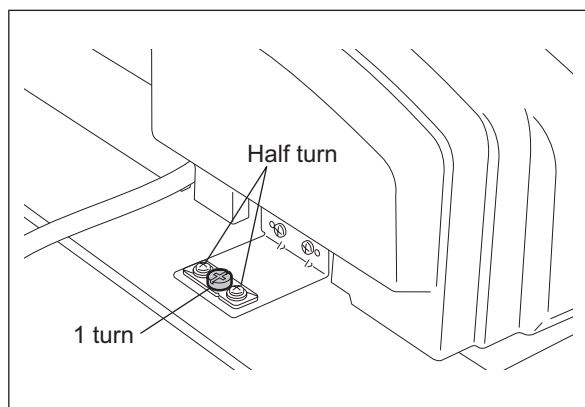


Fig. 3-57

- (4) Remove the stepped screw at the rear of right-hand hinge.

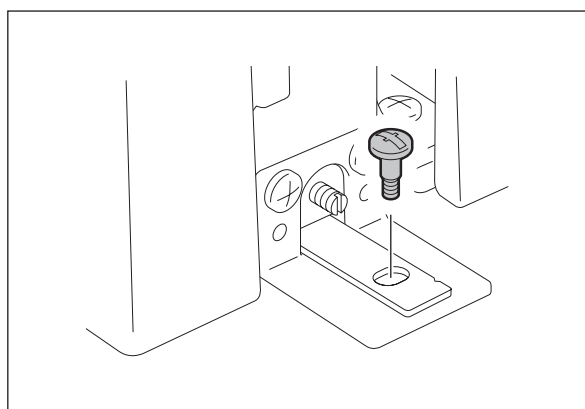


Fig. 3-58

- (5) Open the RADF, and then loosen 2 hand screws 1 turn (status of tentative fixing).

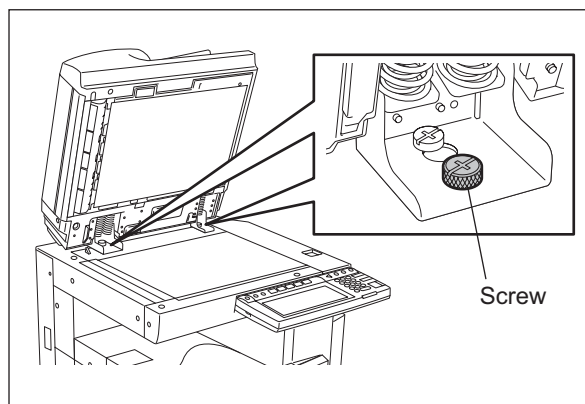
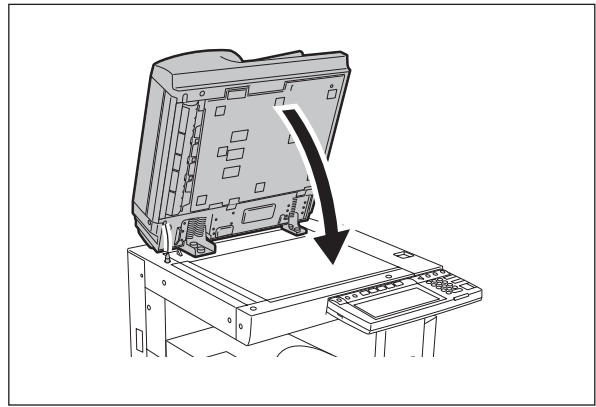


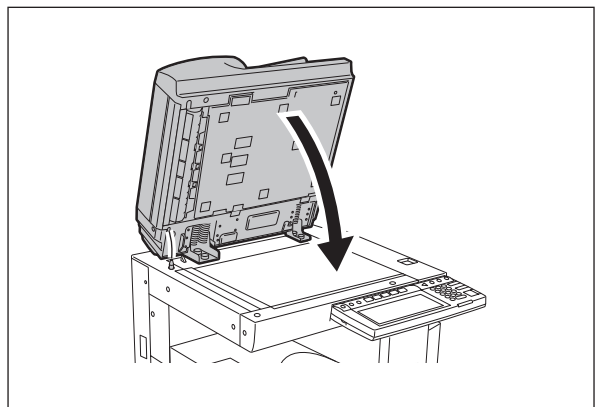
Fig. 3-59

- (6) Remove the positioning pin at the front side. Close the RADF to fit the positioning pin into the hole at the rear side of the RADF. While peering inside from the front side, fit the positions of the pin and hole by moving the RADF right and left.



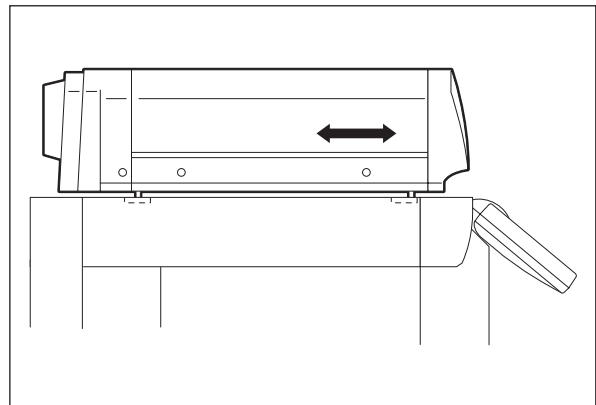
**Fig. 3-60**

- (7) Tighten the positioning pin at the front side. Close the RADF to fit the positioning pin into the hole at the front side of the RADF. (For the front side, adjust the RADF position all around.)



**Fig. 3-61**

- (8) While peering inside from the left side, close the RADF. Check the positions of the holes of the RADF and pins and then fit their positions by moving the RADF back and forth. (For the front side, also adjust the RADF position right and left.) Make sure not to dislocate the positions of the pin and hole at the rear side.



**Fig. 3-62**

- (9) Open the RADF to tighten 2 hand screws. Close the RADF and then check again that the positioning pins fit smoothly into the holes on the RADF.

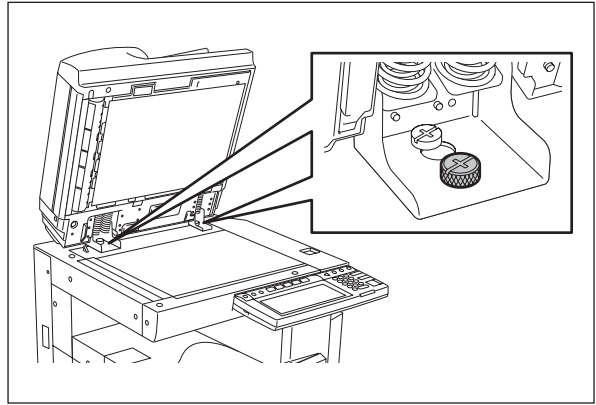


Fig. 3-63

- (10) Fit the hinge hole into the hole of the equipment at the rear right of the RADF to tighten the stepped screw. If they do not fit, adjust the position of the hole by turning the screw of the adjustment plate.

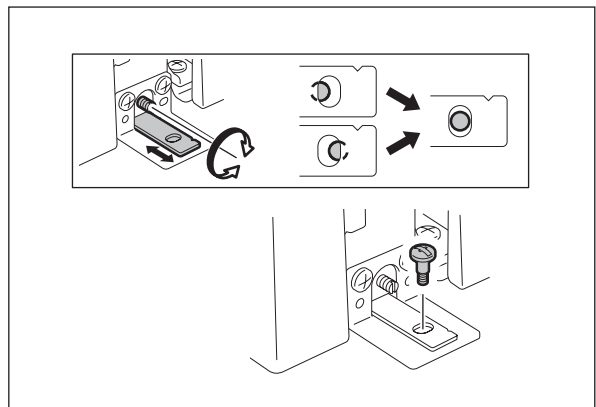


Fig. 3-64

- (11) Tighten the stepped screw and 2 screws on the adjustment plate. Open and close the RADF to check again that the positioning pins fit smoothly into the holes on the RADF. Remove the positioning pins after checking it. (Replace the positioning pins at the rear of the right-hand hinge of the RADF.)

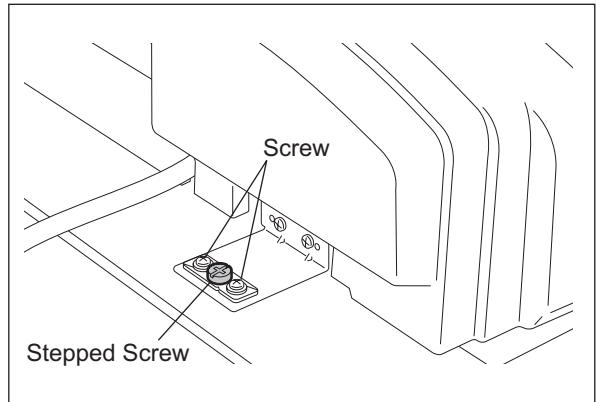
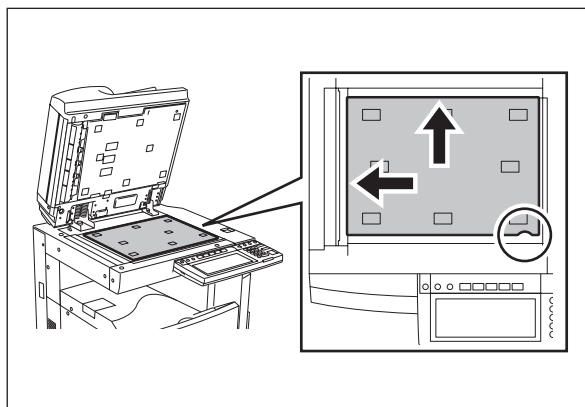


Fig. 3-65

- (12) Place the platen sheet on the original glass with the semi round cutout toward you. Align the platen sheet against the left and rear side of the original glass. Close the RADF slowly. Open the RADF to check that the platen sheet is correctly attached.



**Fig. 3-66**

### 3.10.2 Adjustment of RADF height

It is mainly performed at the installation. It is also required when the RADF is dislocated for some reason such as moving the equipment.

Perform the following adjustment by using the screw of the left and right hinge.

**Note:**

Perform this adjustment after “3.10.1 Adjustment of RADF position”.

Turn the exposure lamp ON during the gap check. (Test Mode: 03-267)

(1) Adjustment standard

Adjust the height so that the platen guide front holder touches the ADF original glass.

Adjust the height so that the gap between the platen guide rear holder and the ADF original glass becomes  $0.5\text{ mm} \pm 0.3$ .

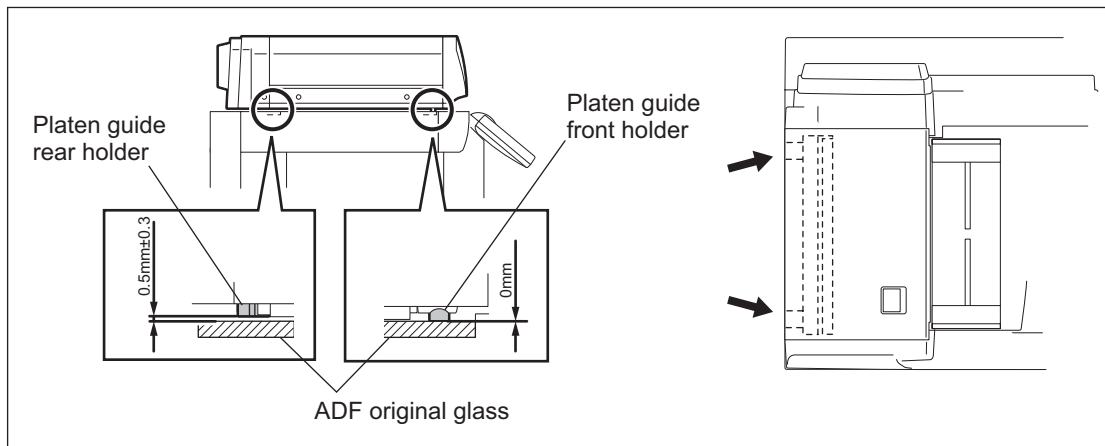


Fig. 3-67

(2) Adjust the height by turning the height

adjusting screw on the left hinge.

Clockwise: The height of the hinge becomes high.

Counterclockwise: The height of the hinge becomes low.

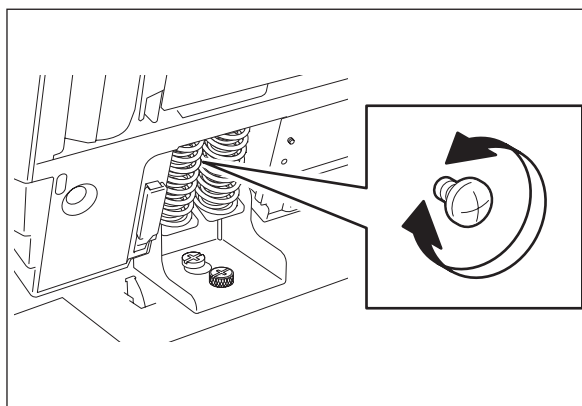
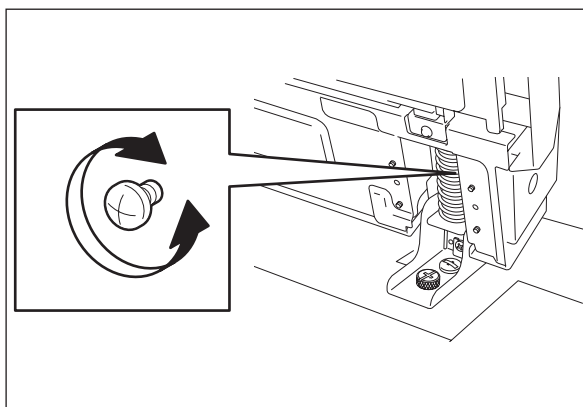


Fig. 3-68

- (3) Adjust the height by turning the height adjusting screw on the right hinge.  
Clockwise: The height of the hinge becomes high.  
Counterclockwise: The height of the hinge becomes low.



**Fig. 3-69**

### 3.10.3 Adjustment of skew

When an image skew occurs, adjust it according to the following steps, Step 1 → Step 2 → Step 3.

**Note:**

Perform this adjustment after confirming that the equipment has been adjusted properly.  
Prior to this adjustment, of RADF position and height are needed to be adjusted.

(1) **Step 1**

Case A: .....Adjust the aligning adjustment position to the rear side “-” of the original (Chap. 3.10.5).

Case B: .....Adjust the aligning adjustment position to the rear side “+” of the original (Chap. 3.10.5).

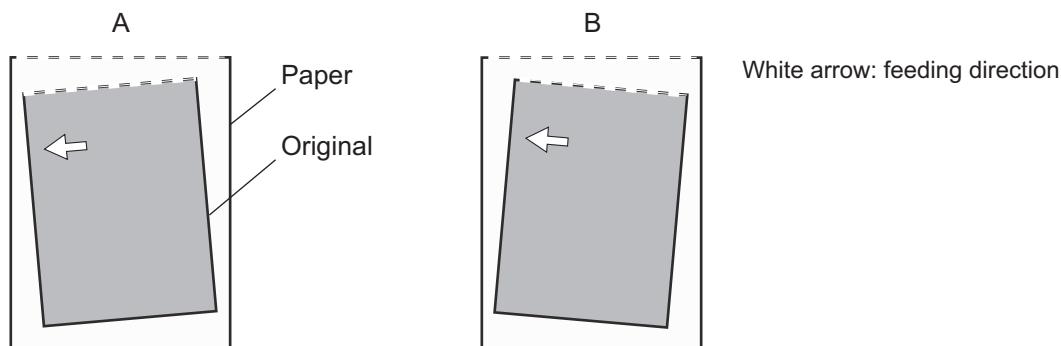


Fig. 3-70

(2) **Step 2**

Case C: .....Loosen the fixing screw and hand screw of the right side hinge and then turn the adjustment screw counterclockwise.

Case D: .....Loosen the fixing screw and hand screw of the right side hinge and then turn the adjustment screw clockwise.

**Note:**

When adjusting, refer to the hinge position (scribed line) and be sure not to move it from the hinge position  $\pm 0.5$  mm or further. Otherwise, image failures such as a jitter may occur.

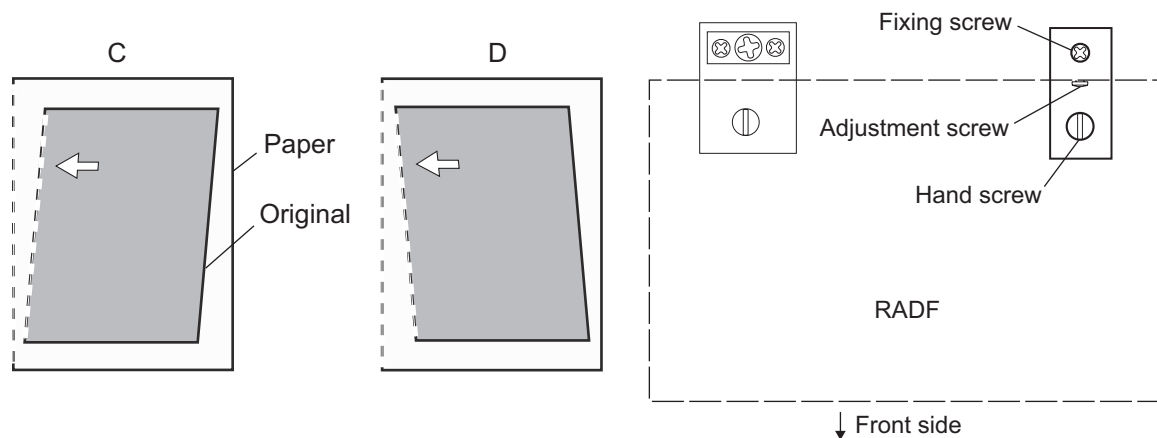


Fig. 3-71

Fig. 3-72

(3) **Step 3**

Case E: .....Adjust the reverse aligning adjustment position to the rear side “-” of the original (Chap. 3.10.6).

Case F: .....Adjust the reverse aligning adjustment position to the rear side “+” of the original (Chap. 3.10.6).

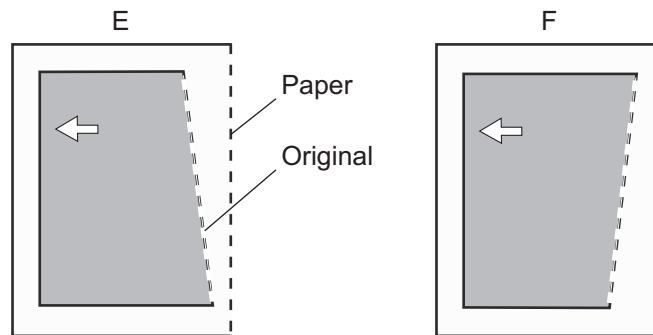


Fig. 3-73

### 3.10.4 Automatic adjustment of sensors and initialization of EEPROM

When any of the PC board, original length sensor, read sensor, reverse sensor is replaced with a new one, make sure to perform the initialization of EEPROM and adjustment of sensors in the Adjustment Mode (05).

Perform them after removing all originals on the sensor and closing the RADF.

Also, make sure to adjust the tray volume when the initialization of EEPROM and automatic sensor adjustment have been performed.

Refer to P. 2-46 "2.2.5 Adjustment mode (05) (e-STUDIO350/450)" for the details.

Errors such as paper jamming may occur if the EEPROM is not initialized and the sensors are not adjusted after the above mentioned parts were replaced.



### 3.10.5 Adjustment of aligning

Adjust the aligning according to Step 1 of 3.10.3.

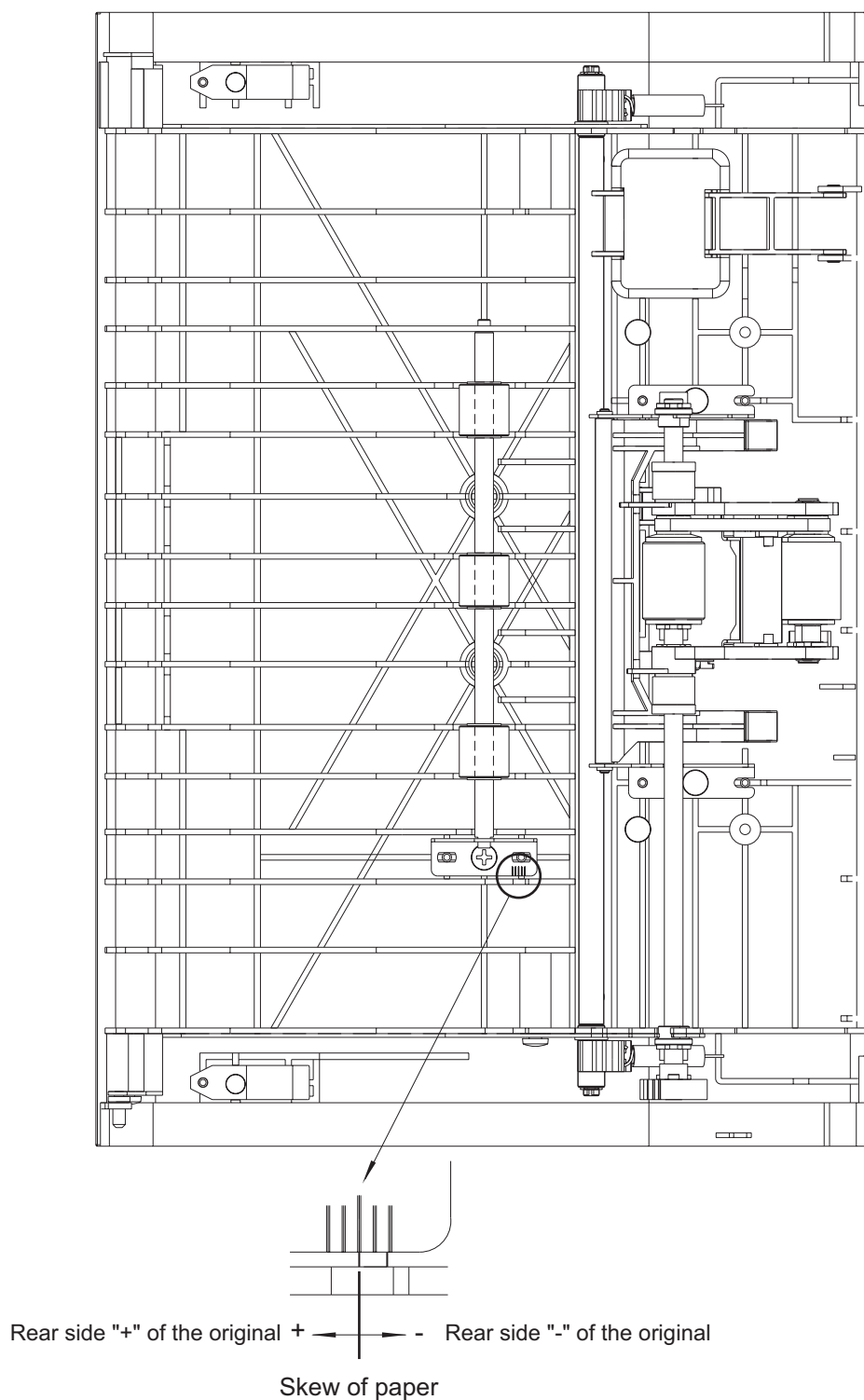


Fig. 3-74

### 3.10.6 Adjustment of aligning at reversing

Adjust the aligning according to Step 3 of 3.10.3.

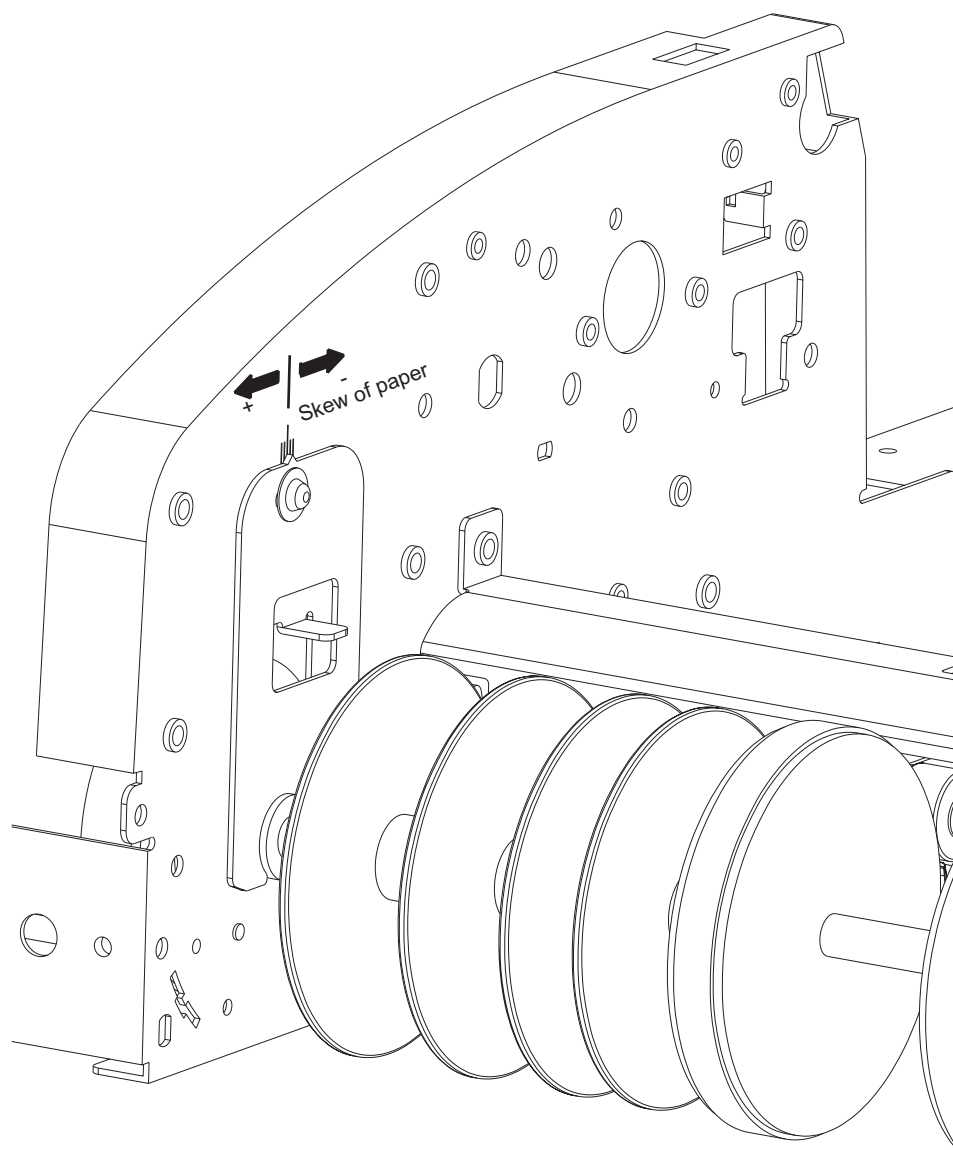


Fig. 3-75

### 3.10.7 Adjustment of reverse solenoid

When operating the reverse solenoid, adjust it if the position of the flapper lever is out of the following dimension.

Gap between A of the front frame and the flapper lever "C": 0.5 mm to 2.0 mm

<Procedure>

- (1) Remove the screw on the left and take off the plate spring.

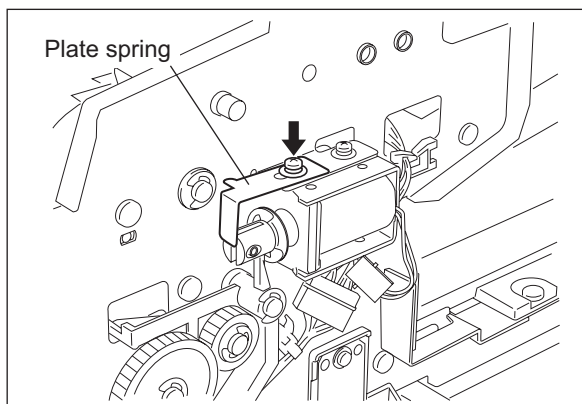


Fig. 3-76

- (2) Align B of the front frame with the edge of the reverse solenoid, and temporarily fix the reverse solenoid with the screw on the right.

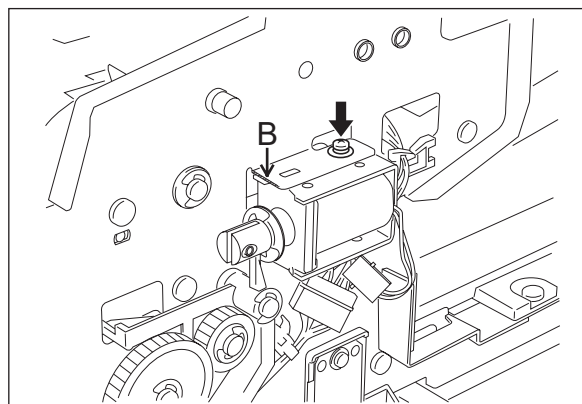


Fig. 3-77

- (3) While the plunger of the reverse solenoid is put in the position to be turned ON (by pressing it in the direction of an arrow), loosen the screw on the right to adjust the reverse solenoid so that the gap (C) between A of the front frame and the flapper lever is 0.5 mm to 2.0 mm.

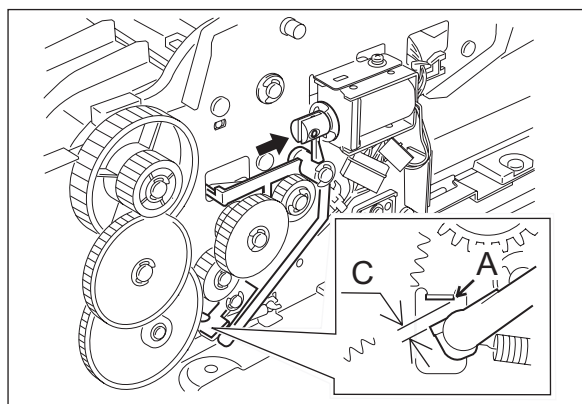
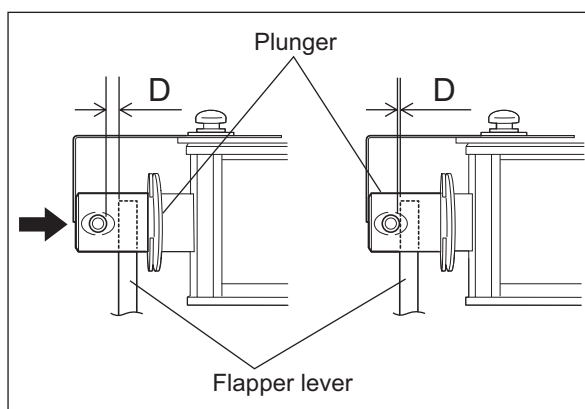


Fig. 3-78

- (4) Fix the plate spring temporarily with the screw on the left. Then press the plate spring slightly in the direction of an arrow and tighten the screw in the position where the gap (D) between the plunger and the flapper lever is eliminated.



**Fig. 3-79**

### 3.10.8 Adjustment of RADF opening/closing switch

Adjust the bracket position so that the switch is turned ON when the height A becomes 40-45 mm (within the empty weight falling limit).

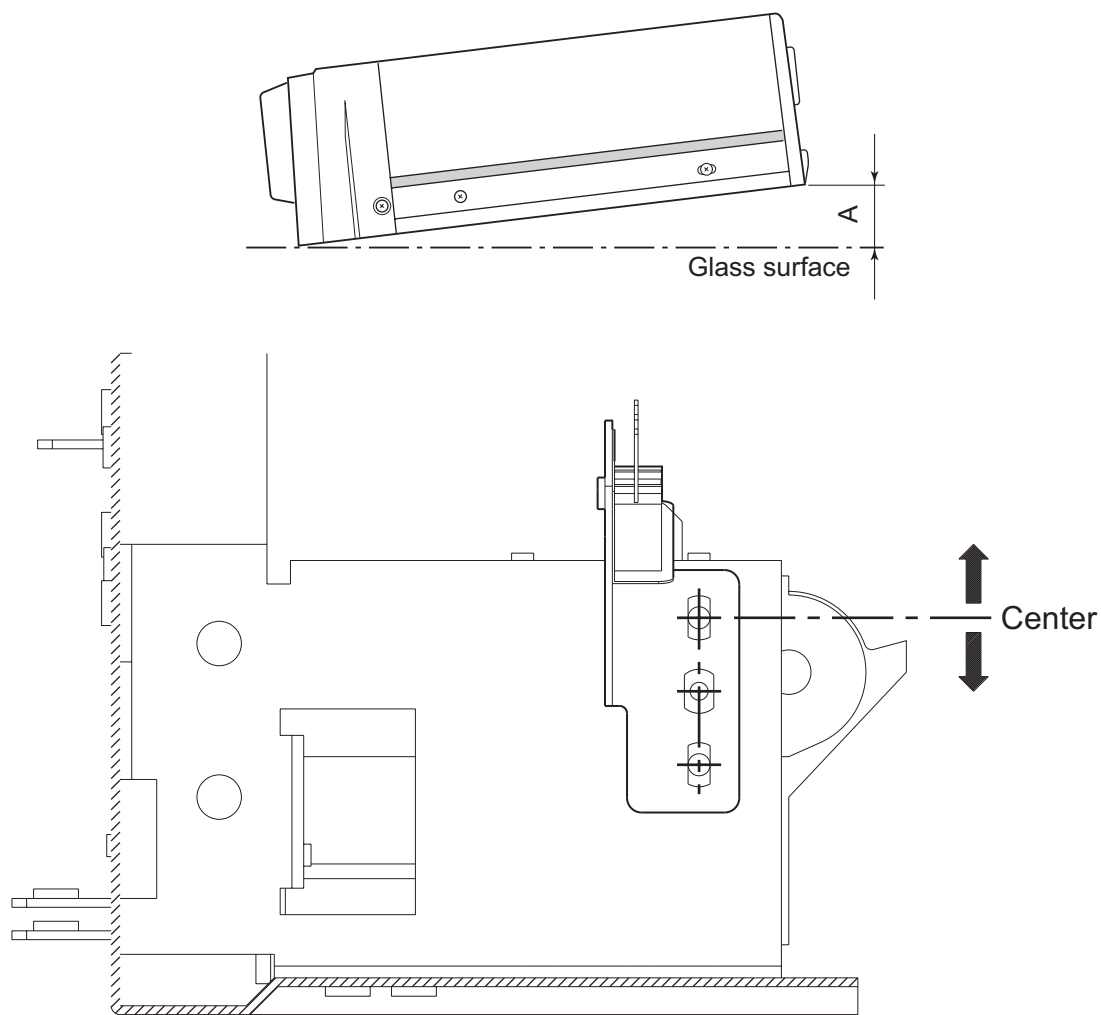


Fig. 3-80

### 3.10.9 Adjustment of RADF opening/closing sensor

Adjust the bracket position so that the sensor is turned ON when the height A becomes 30-35 mm (within the empty weight falling limit).

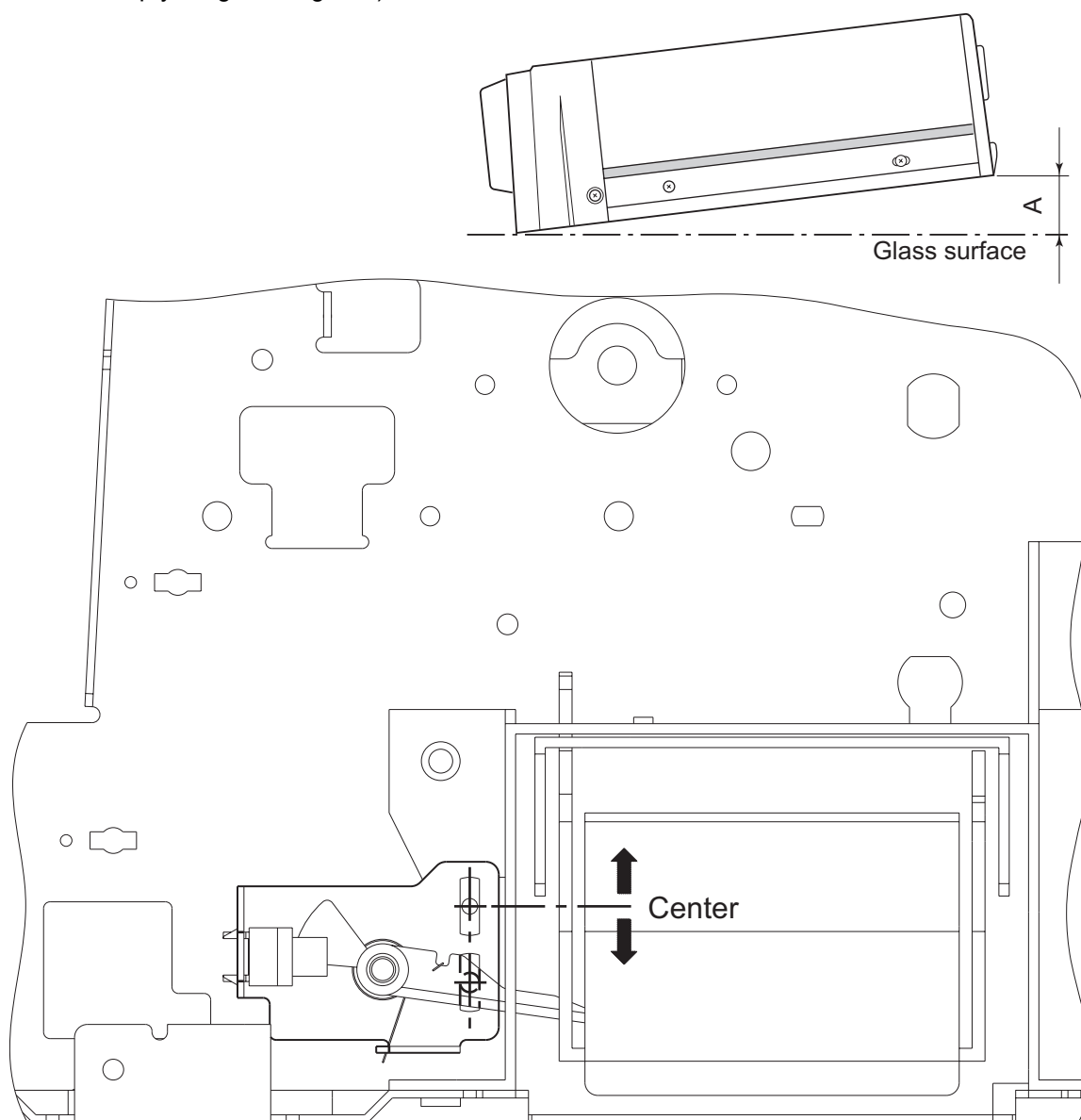


Fig. 3-81

### 3.10.10 Adjustment of tray volume

Adjust in the adjustment mode (05).

<Procedure>

- (1) While pressing [0] and [5] simultaneously, turn the power ON.
- (2) Narrow the original guide to the limit.
- (3) Input the code "367".
- (4) Press the [START] button.

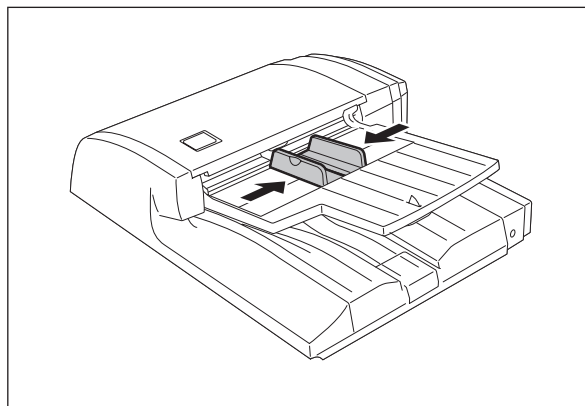


Fig. 3-82

- (5) Extend the original guide to the limit.
- (6) Input the code "368".
- (7) Press the [START] button.
- (8) Turn the power OFF.

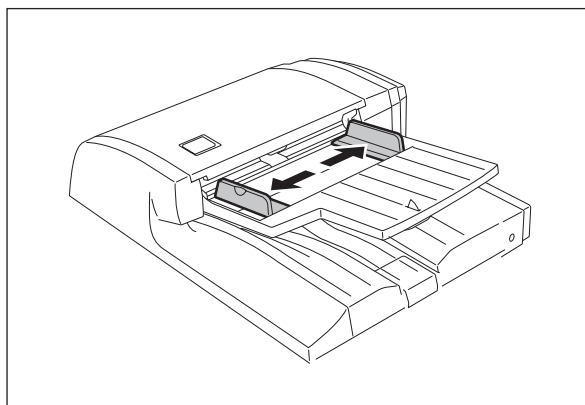


Fig. 3-83

## 3.11 Adjustment of the RADF (MR-3018)

### 3.11.1 Adjustment of RADF Position

Perform this adjustment when the RADF is not installed in the correct position.

**Note:**

Check if the image adjustment for the equipment is performed properly before this adjustment of the RADF.

#### [A] Checking

- (1) Open the RADF and install 2 positioning pins (the positioning pins are installed to the back side of the hinge which is on the left side of the RADF).

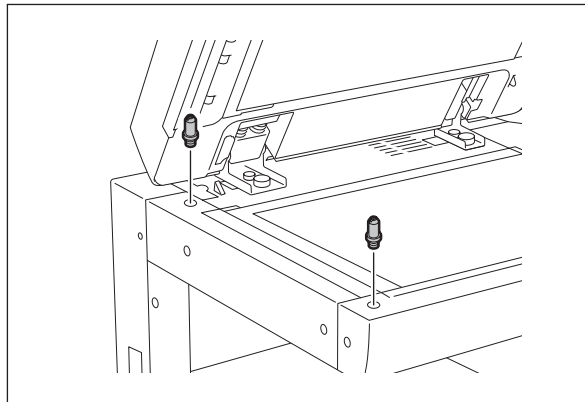


Fig. 3-84

- (2) Remove the platen sheet.

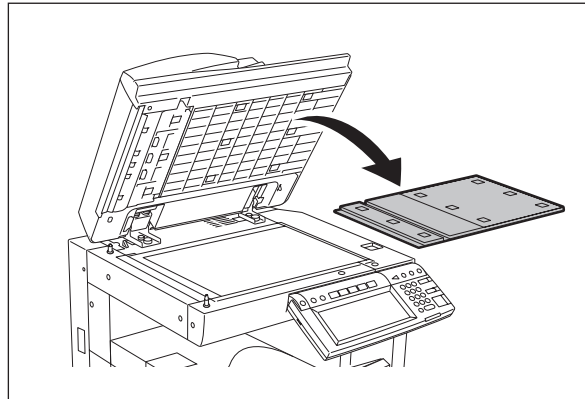


Fig. 3-85



- (3) Close the RADF and check if the positioning pins fit the holes on the RADF.

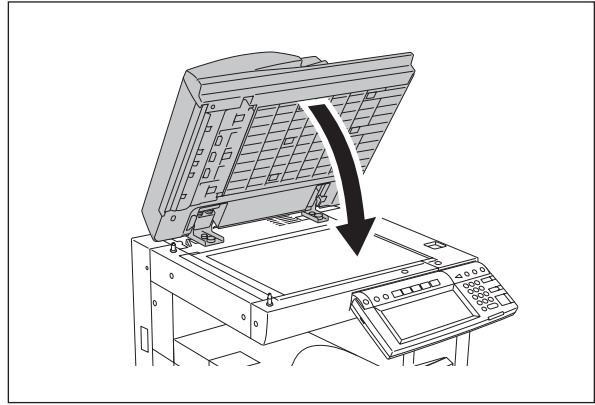


Fig. 3-86

### [B] Adjustment

If the pins cannot be fitted into the holes, perform the adjustment according to the following procedure.

- (1) Remove the right-hand hinge screw at the rear side.

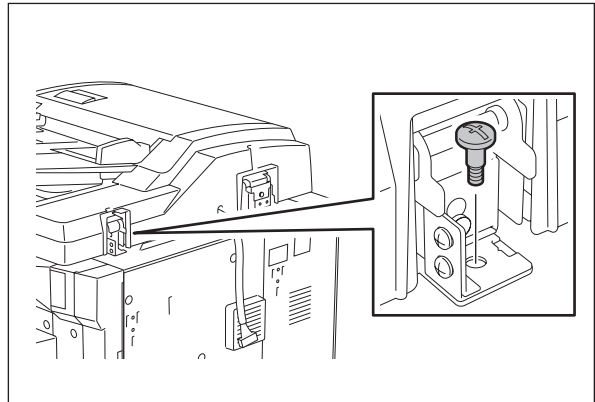


Fig. 3-87

- (2) Loosen the left-hand hinge screw at the rear side.

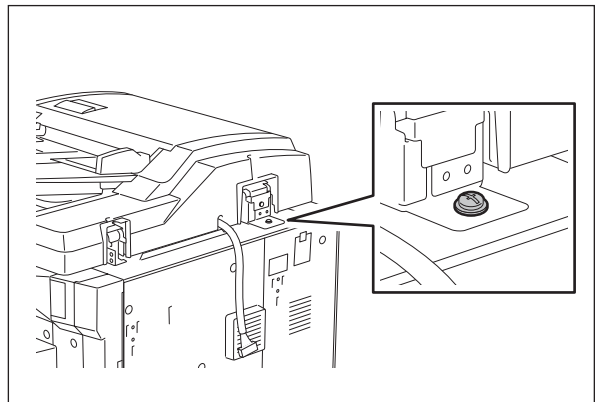
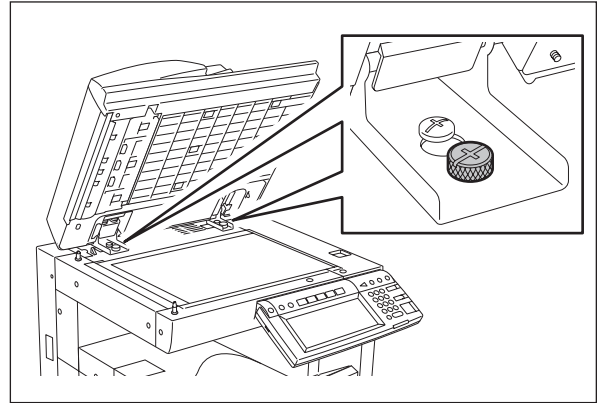


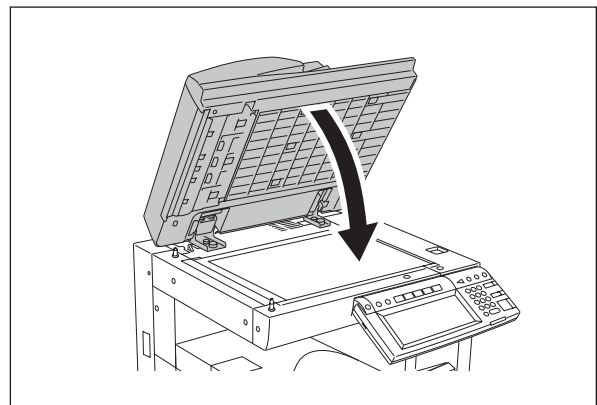
Fig. 3-88

- (3) Loosen the hinge screws at the front side.



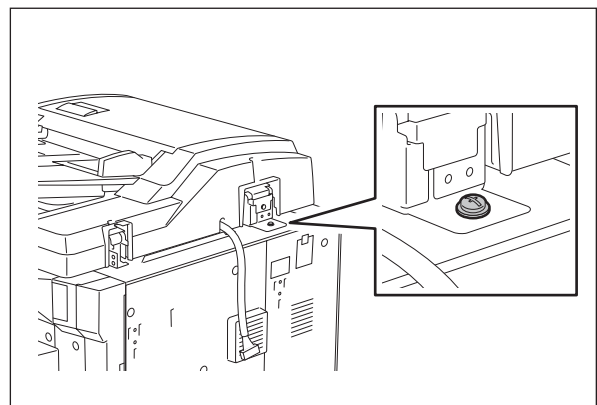
**Fig. 3-89**

- (4) Position the pins with the holes on the RADF by moving it so that the pins fit into the holes when the RADF is closed.



**Fig. 3-90**

- (5) Tighten the left-hand hinge screw at the rear side.



**Fig. 3-91**

- (6) Loosen the hole position adjustment screws on the right hand side.

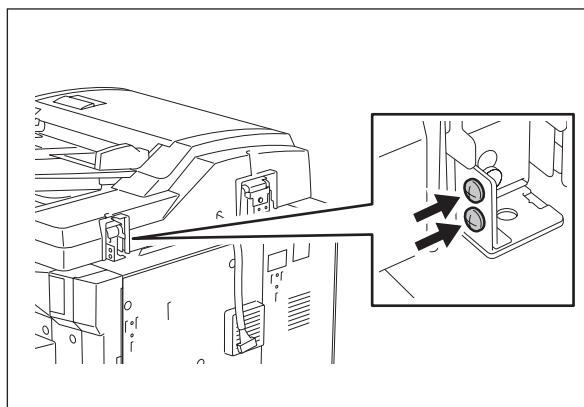


Fig. 3-92

- (7) Match the screw hole positions.

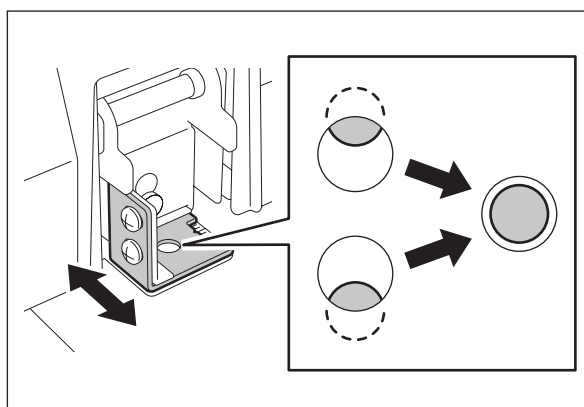


Fig. 3-93

- (8) Install the right-hand hinge screw at the rear side.

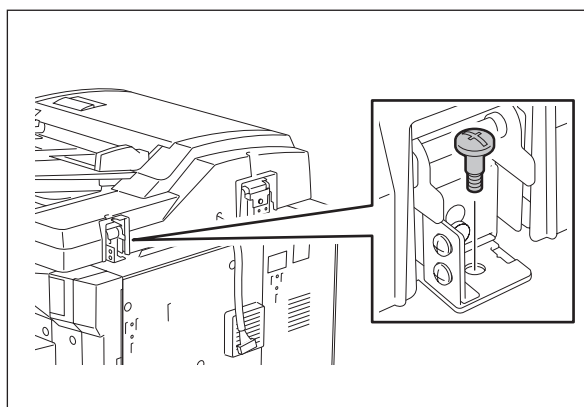
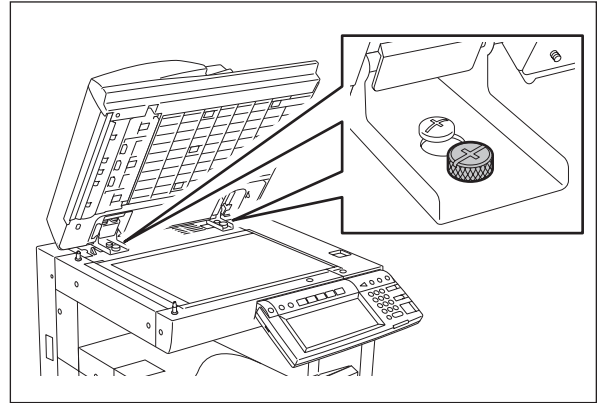


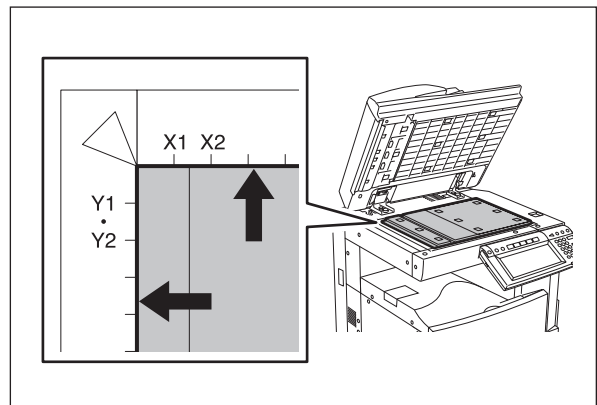
Fig. 3-94

- (9) Loosen the hinge screws at the front side.



**Fig. 3-95**

- (10) Place the platen sheet on the original glass and align it to the top left corner.  
Close the RADF gently and open it to check if the platen sheet is attached properly.



**Fig. 3-96**

### 3.11.2 Adjustment of RADF Height

**Note:**

Check if the image adjustment for the equipment is performed properly before this adjustment of the RADF.

**[A] Checking**

- (1) Close the RADF.
- (2) Light the exposure lamp.
  - Turn the power ON while pressing [0] and [3] simultaneously.
  - Key in [267] and then press the [START] button. The exposure lamp is turned ON for a given length of time.
- (3) Visually check the gap between platen guide holder "A" and upper surface of the original glass "B" from the left hand side of the equipment. If the value is not within the tolerance, perform the adjustment according to the following procedure.

[Tolerance of the gap]

Rear side: 0 - 0.5 mm

Front side: 0 mm

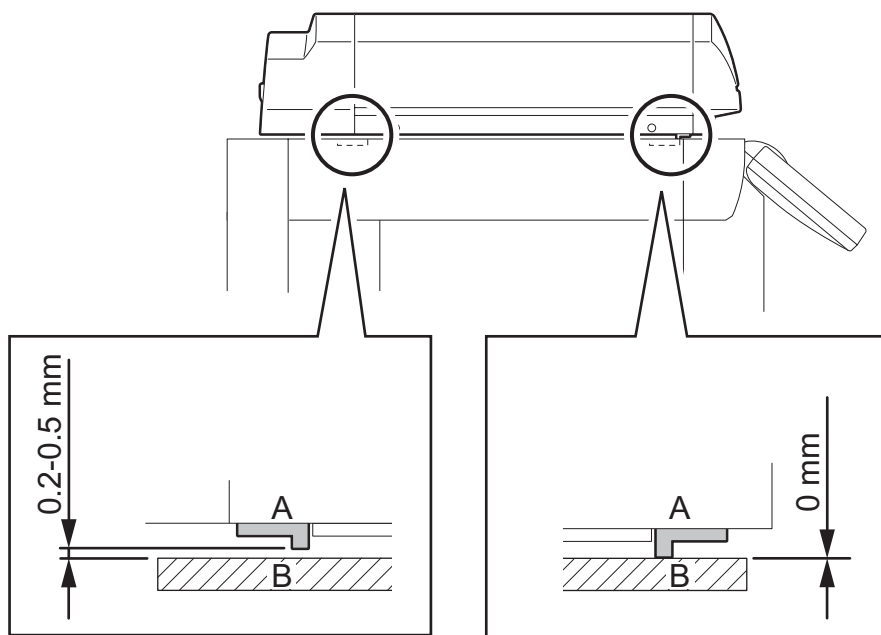


Fig. 3-97

## [B] Adjustment

- (1) Close the RADF.
  - (2) Adjust it by turning the adjustment screws on the hinges.
    - Adjust the height on the rear side by means of the screw on the hinge on the feed side of the RADF.
- Turn it clockwise ..... Heightened  
Turn it counterclockwise ..... Lowered

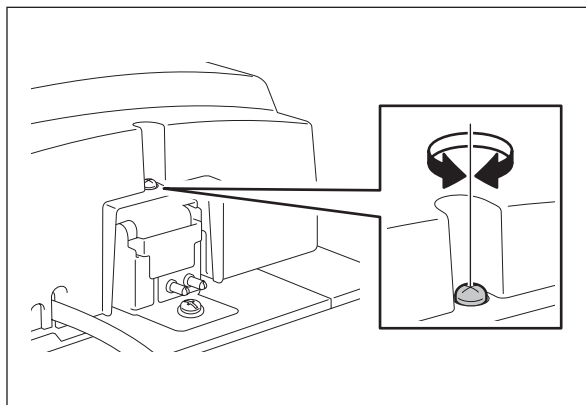


Fig. 3-98

- Adjust the gap on the rear side by means of the screw on the hinge on the feed side of the RADF.
- Turn it clockwis ..... Lowered  
Turn it counterclockwise ..... Heightened

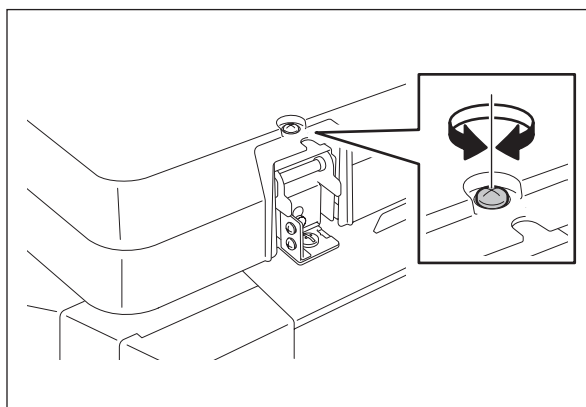


Fig. 3-99

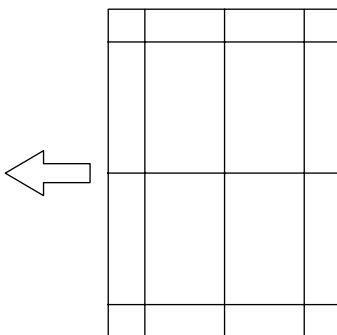
### 3.11.3 Adjustment of Skew

**Note:**

Check if the image adjustment for the equipment is performed properly before this adjustment of the RADF. Also, the RADF position and height shall be adjusted properly.

**[A] Checking**

Check the image using the chart (original) with vertical and horizontal lines in the following procedure.



**Fig. 3-100 Chart (Original)**

Simplex copying:

- (1) Place the chart provided as an original with its face up on the original tray of the RADF, select [1 Sided -> 1 Sided] and press the [START] button.
- (2) Superimpose the chart on the copy and check the inclination of the copy image.

Duplex copying:

- (1) Place the chart provided as an original with its face up on the original tray of the RADF, select [2 Sided -> 2 Sided] and press the [START] button.
- (2) Superimpose the chart on the copy and check the inclination of the copy image.

## [B] Adjustment

### Simplex copying:

- (1) Shift the aligning plate with the scale as the guide shown in the figure below to adjust the skew.

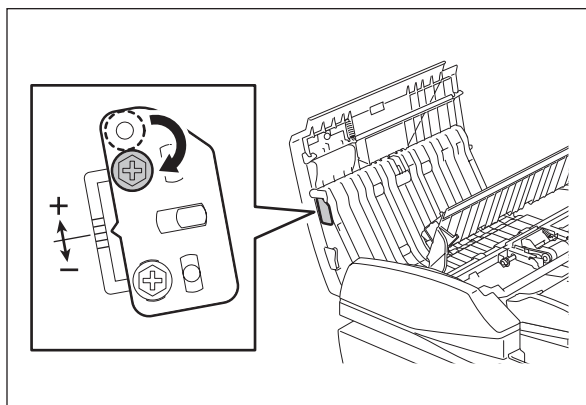


Fig. 3-101

- (2) If the image skew is "C" as shown in the figure below, shift the aligning plate in the direction of "+", and if "D", shift it to "-".

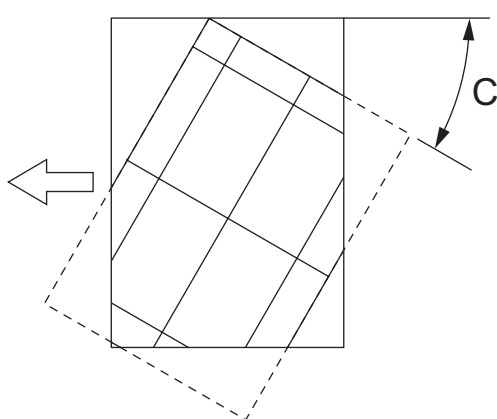


Fig. 3-102

Shift the aligning plate in the direction of "+".

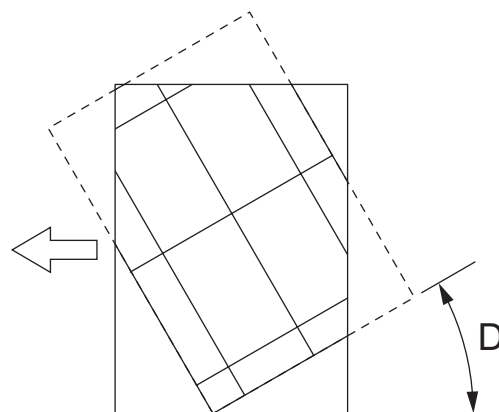


Fig. 3-103

Shift the aligning plate in the direction of "-".



Duplex copying:

- (1) Shift the aligning plate with the scale as the guide shown in the figure below to adjust the skew.

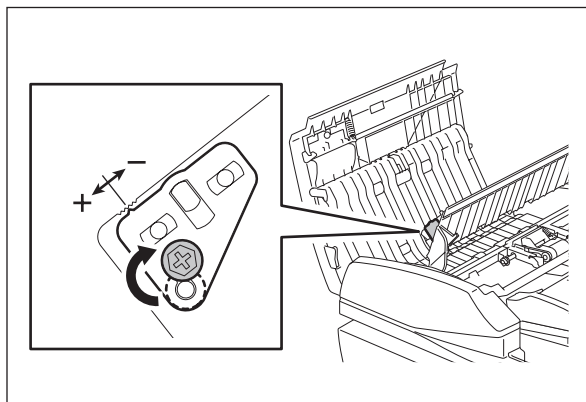


Fig. 3-104

- (2) If the image skew is "C" as shown in the figure below, shift the aligning plate in the direction of "-", and if "D", shift it to "+".

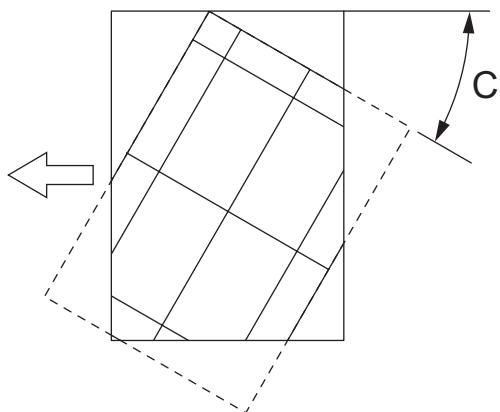


Fig. 3-105

Shift the aligning plate in the direction of "-".

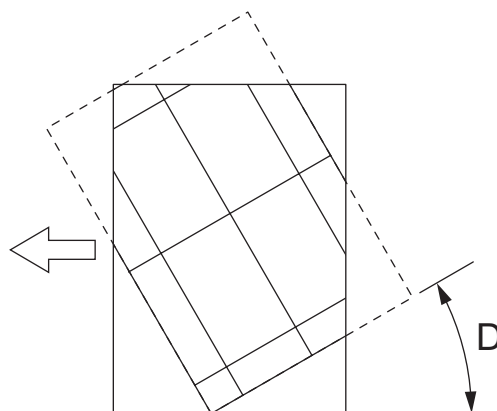


Fig. 3-106

Shift the aligning plate in the direction of "+".

### 3.11.4 Adjustment of the Leading Edge Position

**Note:**

Check if the image adjustment for the equipment is performed properly before this adjustment of the RADF. Also, the RADF position and height shall be adjusted properly.

**[A] Checking**

Check the image using the chart (original) with vertical and horizontal lines in the following procedure.

Simplex copying:

- (1) Place the chart provided as an original with its face up on the original tray of the RADF, select [1 Sided -> 1 Sided] and press the [START] button.
- (2) Superimpose the chart on the copy and check the leading edge E of the chart and F of the copy.

Duplex copying:

- (1) Place the chart provided as an original with its face up on the original tray of the RADF, select [2 Sided -> 2 Sided] and press the [START] button.
- (2) Superimpose the chart on the copy and check the leading edge E of the chart and F of the copy.

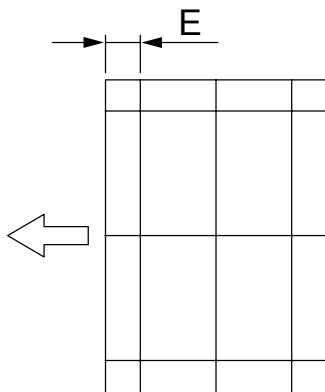


Fig. 3-107 Chart (Original)

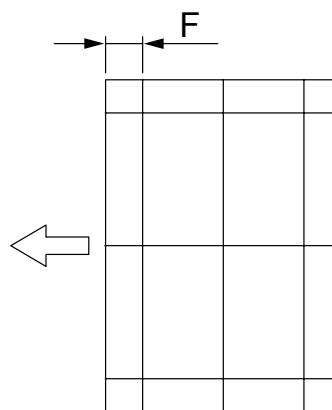


Fig. 3-108 Copy

**[B] Adjustment**

Simplex copying:

- (1) Turn the power ON while pressing [0] and [5] simultaneously, key in [365] and then press the [START] button.
- (2) Enter the value.
  - If the leading edge (F) margin of the copy image is larger than the (E) margin of the chart, enter a value smaller than the current one.

**Note:**

Changing one value shifts the copy image by 0.1 mm.

- If the leading edge (F) margin of the copy image is smaller than the (E) margin of the chart, enter a value larger than the current one.

**Note:**

Changing one value shifts the copy image by 0.1 mm.

- (3) Press the [ENTER] button.

### Duplex copying:

- (1) Turn the power ON while pressing [0] and [5] simultaneously, key in [366] and then press the [START] button.
- (2) Enter the value.
  - If the leading edge (F) margin of the copy image is larger than the (E) margin of the chart, enter a value smaller than the current one.

**Note:**

Changing one value shifts the copy image by 0.1 mm.

- If the leading edge (F) margin of the copy image is smaller than the (E) margin of the chart, enter a value larger than the current one.

**Note:**

Changing one value shifts the copy image by 0.1 mm.

- (3) Press the [ENTER] button.

## 3.11.5 Adjustment of Horizontal Position

**Note:**

Check if the image adjustment for the equipment is performed properly before this adjustment of the RADF. Also, the RADF position and height shall be adjusted properly.

### **[A] Checking**

Check the image using the chart (original) with a center line in the following procedure.

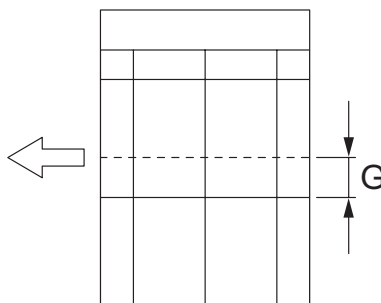
- (1) Place the chart provided as an original with its face up on the original tray of the RADF.
- (2) Press the [START] button.
- (3) Fold the copy in half and check if the center line is misaligned.

### **[B] Adjustment**

- (1) Turn the power ON while pressing [0] and [5] simultaneously.
- (2) Key in [358] and then press the [START] button.
  - If the center line of the copy image is shifted to the front side of the equipment, enter a value larger than the current one.

**Note:**

Changing one value shifts the copy image by 0.042 mm.

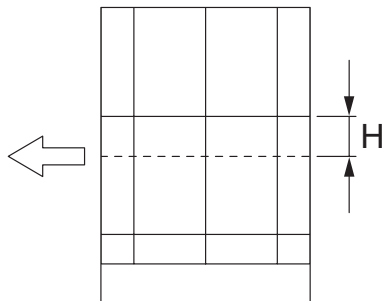


**Fig. 3-109**

- If the center line of the copy image is shifted to the rear side of the equipment, enter a value smaller than the current one.

**Note:**

Changing one value shifts the copy image by 0.042 mm.



**Fig. 3-110**

(3) Press the [ENTER] button.

### 3.11.6 Adjustment of Copy Ratio

**Note:**

Check if the image adjustment for the equipment is performed properly before this adjustment of the RADF. Also, the RADF position and height shall be adjusted properly.

**[A] Checking**

Check the image using the chart (original) with vertical and horizontal lines in the following procedure.

- (1) Place the chart provided as an original with its face up on the original tray of the RADF.
- (2) Press the [START] button.
- (3) Superimpose the chart on the copy and check the image dimension "I".

**[B] Adjustment**

- (1) Turn the power ON while pressing [0] and [5] simultaneously.
- (2) Key in [357] and then press the [START] button.
  - If the copy image dimension "I" is larger than the chart dimension, enter a value smaller than the current one.
  - If the copy image dimension "I" is smaller than the chart dimension, enter a value larger than the current one.

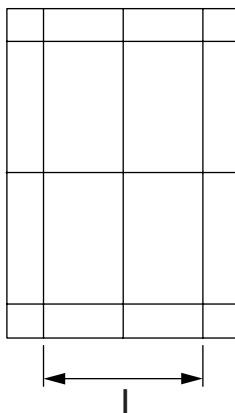


Fig. 3-111

- (3) Press the [ENTER] button.

### 3.11.7 Adjustment of RADF Opening/Closing Sensor

Adjust the bracket position so that the sensor is turned ON when the height “A” becomes 100 mm or less (within the empty weight falling limit).

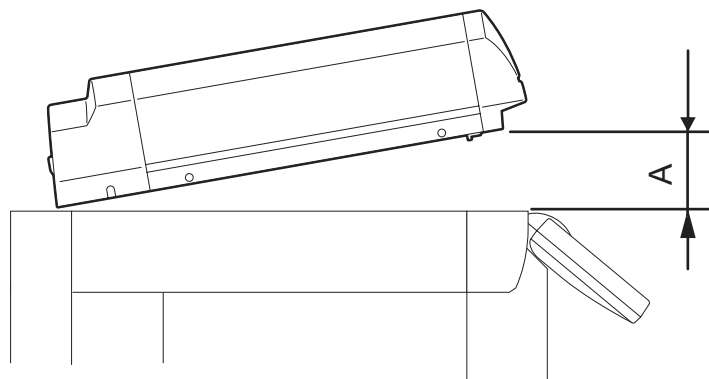


Fig. 3-112

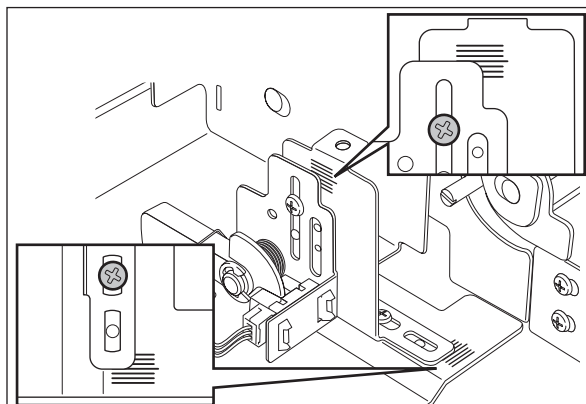


Fig. 3-113

## 3.12 Adjustment of the Finisher (MJ-1022)

### Note:

Before performing each adjustment, make sure that all covers (incl. those of the finisher and host machine) are closed. Otherwise, the power is not supplied to the finisher and the adjustment may not be performed properly.

### 3.12.1 Adjusting the jogging plate width

- (1) Remove the right inner cover and the rear cover.
- (2) Adjust the front jogging plate to the home position.
  - Set SW1 on the finisher controller PC board as shown in Fig. 3-114.
  - Press SW2 twice on the finisher controller PC board.
    - The front jogging plate moves to the home position.

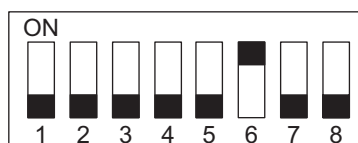


Fig. 3-114

- (3) Adjust the rear jogging plate to the home position.
  - Set SW1 on the finisher controller PC board as shown in Fig. 3-115.
  - Press SW2 twice on the finisher controller PC board.
    - The rear jogging plate moves to the home position.

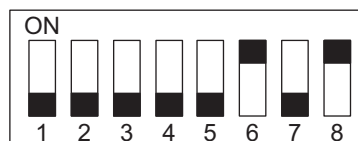


Fig. 3-115

Rear jogging plate home position

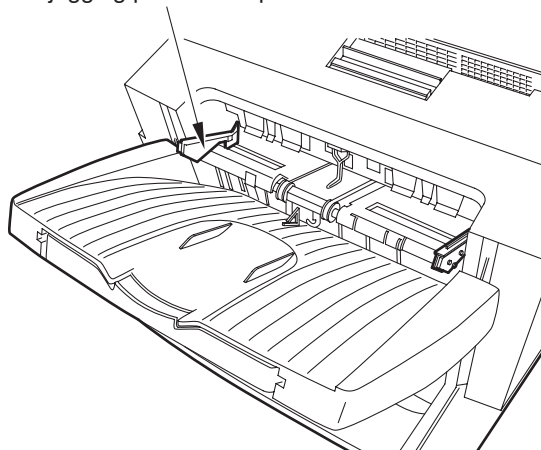


Fig. 3-116

- (4) Measure the jogging width (standard at 317 mm).
- (5) Remove the processing tray.

- (6) Loosen the screw on the home position sensor plate at the front.

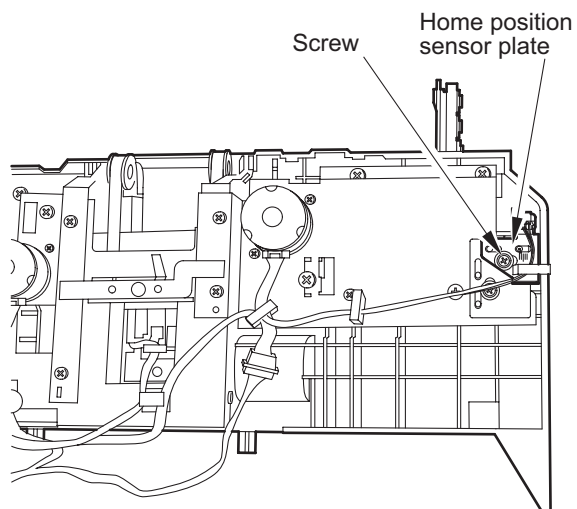


Fig. 3-117

- (7) Adjust the position of the front jogging plate home position sensor (S6) with reference to the index.

EX. 1

If the width is 319 mm in step (4), the difference from the standard is +2 mm, it requires relocation of the sensor [3] in the direction of arrow A by 2 mm.

EX. 2 If the width is 316 mm in step (4), the difference from the standard is -1 mm; it requires relocation of the sensor [3] in the direction of arrow B by 1 mm.

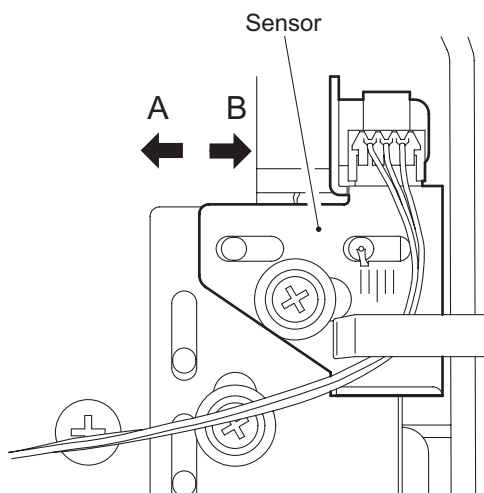


Fig. 3-118



### 3.12.2 Adjusting the angle of the jogging plate

- (1) Without removing the processing tray unit, loosen the 2 mounting screws of the rear jogging plate.

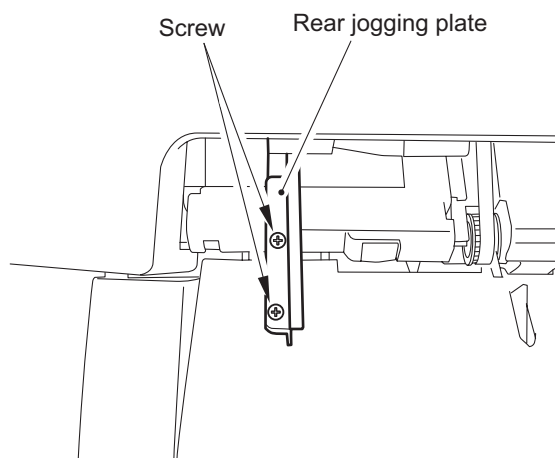
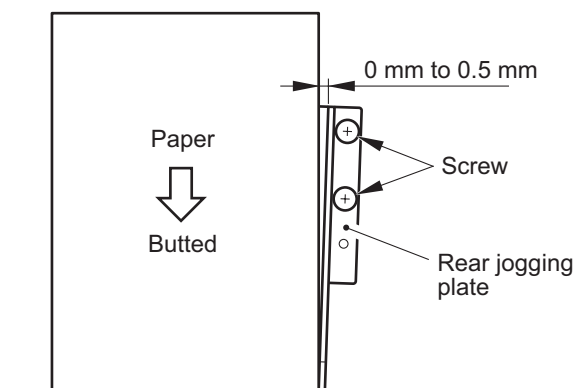


Fig. 3-119

- (2) Place several sheets of A4/LT paper on the processing tray, and adjust the rear jogging plate. (At this time, adjust the gap between the paper and the front end of the rear jogging plate so that it is 0 mm to 0.5 mm.)



- (3) With reference to the rear jogging plate adjusted in step (2), adjust the front jogging plate in the same manner.

### 3.12.3 Adjusting the overlap of the sensor flag

If the overlap between the sensor and the flag is wrong for some reason, perform the following adjustment.

- (1) Remove the processing tray unit.
- (2) Loosen the mounting screw of the front/rear jogging plate adjusting plate; then, move the adjusting plate to the left and the right.

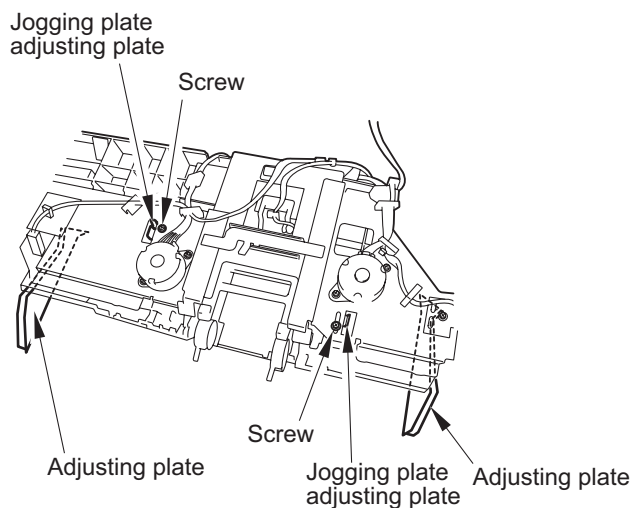


Fig. 3-120

- (3) Tighten the screw so that the overlap between the flag of the front/rear jogging rack plate and the sensor is 1.5 mm to 2.0 mm.

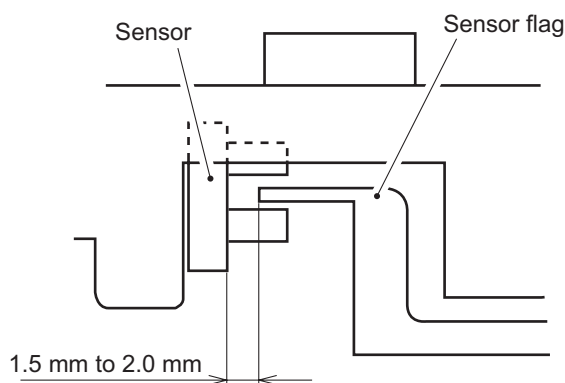


Fig. 3-121

### 3.12.4 Adjusting the tension of the stack processing motor belt

- (1) Remove the right inner cover and the rear cover.
- (2) Remove the 2 mounting screws, and detach the grip unit.

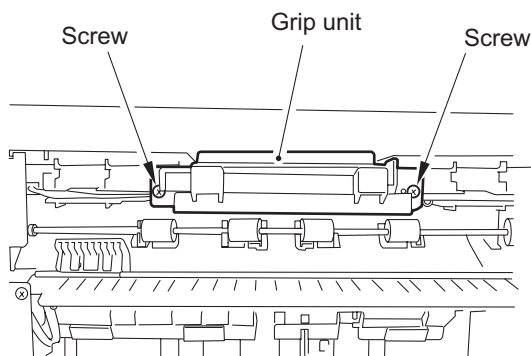


Fig. 3-122

- (3) Loosen the screw on the tension arm plate. (The tension arm plate will be pulled under tension by the tension spring.)

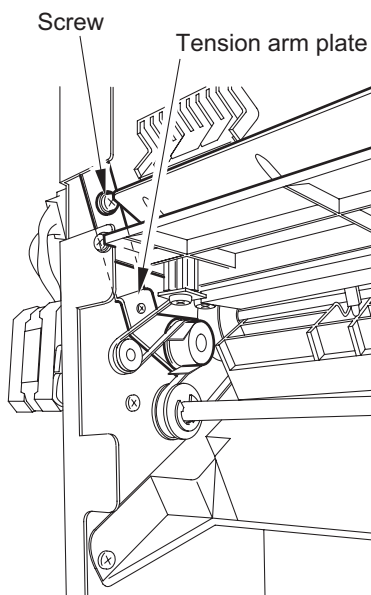
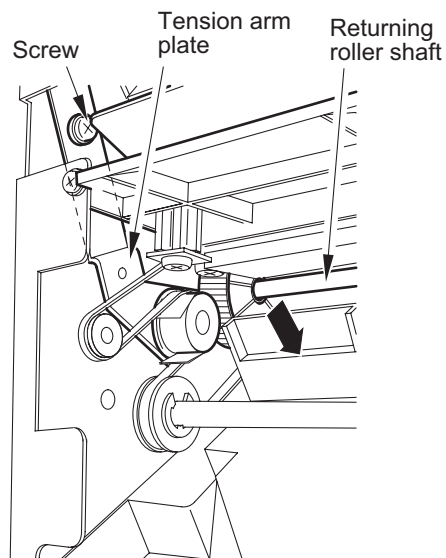


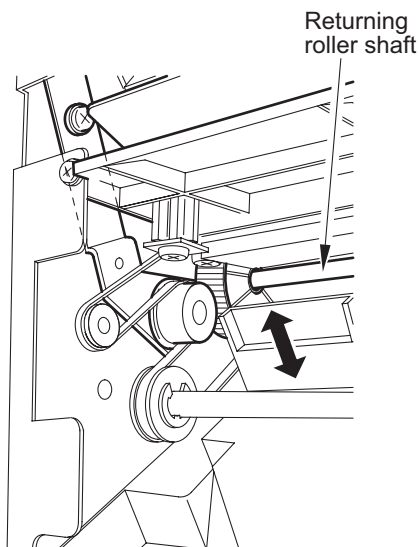
Fig. 3-123

- (4) Move the returning roller shaft to its lower limit (the slack of a belt is lightly taken); then, tighten the screw on the tension arm plate.



**Fig. 3-124**

- (5) Check to make sure that the returning roller shaft moves smoothly.



**Fig. 3-125**

### 3.12.5 Releasing the stack tray guide lever fixing plate

- (1) Remove the right inner cover and the rear cover.
- (2) Remove the finisher control PC board, PC board bracket and sensor PC board.
- (3) Remove the stack tray.
- (4) Remove the stack tray drive unit.
- (5) Place the stack tray guide lever fixing plate so that it is in view through the hole in the side plate (front, rear). Then remove the fixing screw. (Perform the same for the front and the rear.)

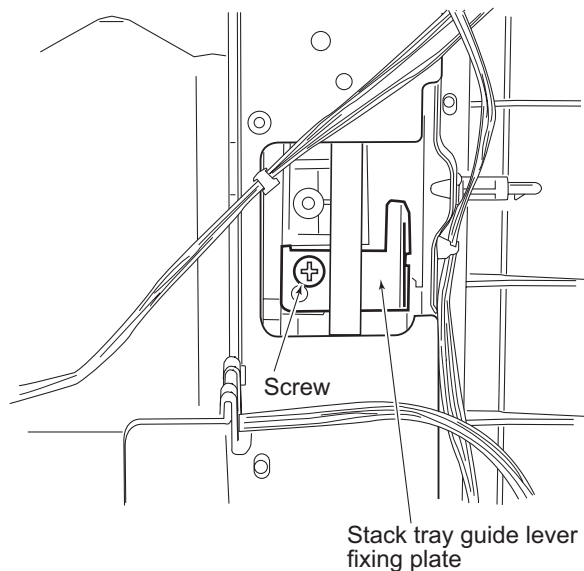


Fig. 3-126

**Note:**

When removing the mounting screw, be sure to hold the stack tray guide lever up from below.

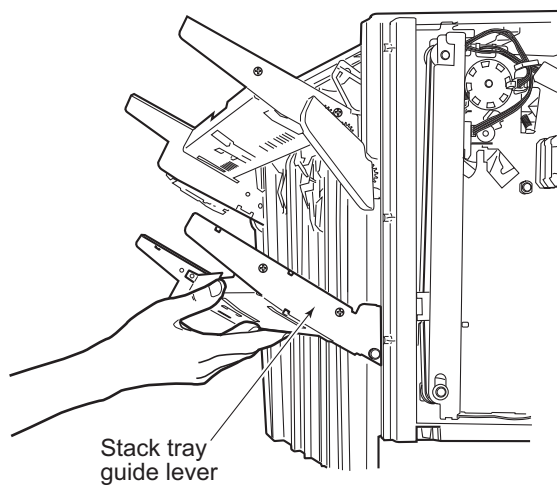


Fig. 3-127

### 3.12.6 Adjustment of the upper tray angle

- (1) Remove the front cover.

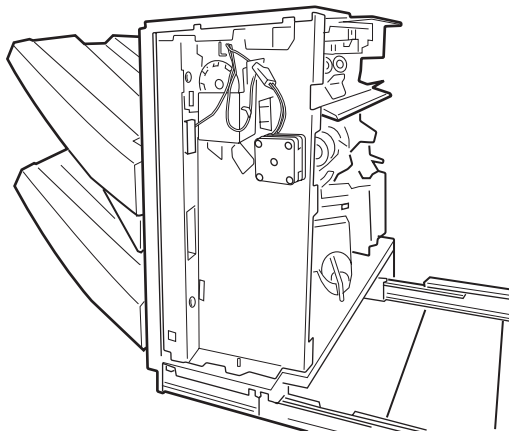


Fig. 3-128

- (2) Loosen the screw denoted with the arrow.

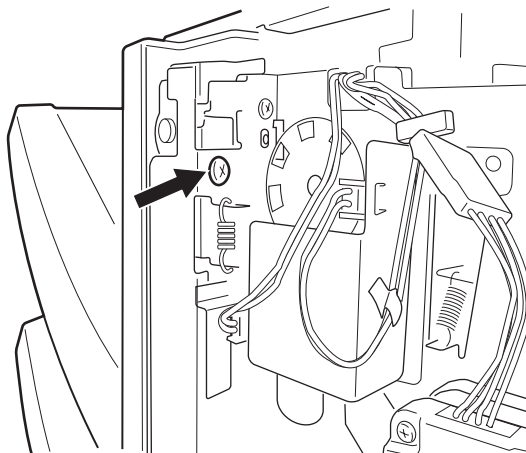


Fig. 3-129

- (3) The tension becomes loose.

While pushing the bracket down, hold the tray and move it up or down, to adjust the angle so that the tray becomes parallel by a visual check.

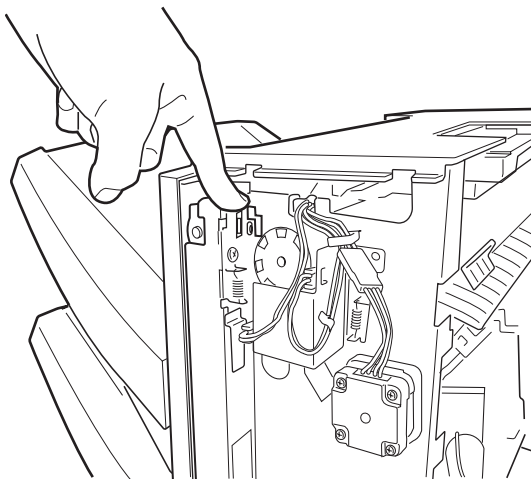


Fig. 3-130

- (4) After the height adjustment, tighten the fixing screw of the bracket.

**Note:**

If the fixing screw of the bracket is not fixed, the belt is loosened which may cause a skipped tooth.

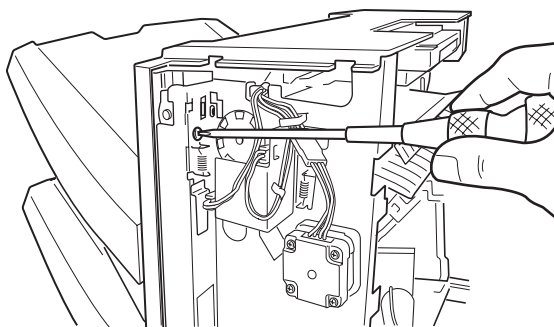


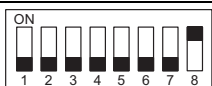
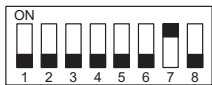


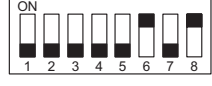
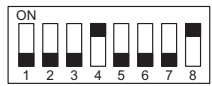
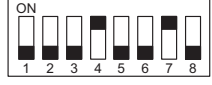
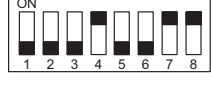



Fig. 3-131

### 3.12.7 DIP switch functions

You can simulate various functions by setting the DIP switch (SW1) on the finisher controller PC board appropriately.

#### Initiating Operations

- 1) Remove any obstacles from the area of operation.
- 2) Set the DIP switch (SW1) as shown, and turn ON the power (so that LED1 will start to blink).
- 3) Press the pushing switch (SW2) twice to initiate the operation in question. (LED2 will remain on during operation).

Setting	Item	Operation		To stop
	Delivery motor	The delivery roller rotates in a specific speed.		<ul style="list-style-type: none"> <li>• Press SW2 again.</li> <li>• Turn OFF the joint sensor (S4).</li> </ul>
	Stack processing motor (stack delivery lever)	The stack delivery lever moves to its home position and stops.		<ul style="list-style-type: none"> <li>• Turn OFF the joint sensor (S4).</li> </ul>
	Stack processing motor (returning roller)	The returning roller moves to the home position and stops.		<ul style="list-style-type: none"> <li>• Turn OFF the joint sensor (S4).</li> </ul>
	Front jogging plate motor	When not at the home position	The front jogging plate moves to its home position and stops.	<ul style="list-style-type: none"> <li>• Turn OFF the joint sensor (S4).</li> </ul>
		When at the home position	The front jogging plate moves over a specific position and stops at the home position.	<ul style="list-style-type: none"> <li>• Turn OFF the joint sensor (S4).</li> </ul>
	Rear jogging plate motor	When not at the home position	The rear jogging plate moves to the home position and stops.	<ul style="list-style-type: none"> <li>• Turn OFF the joint sensor (S4).</li> </ul>
		When at the home position	The rear jogging plate moves over a specific distance and stops.	<ul style="list-style-type: none"> <li>• Turn OFF the joint sensor (S4).</li> </ul>
	Upper stack tray motor (up)	The upper stack tray moves up and stops when the upper stack tray upper limit sensor turns ON.		<ul style="list-style-type: none"> <li>• Press SW2 again.</li> <li>• Turn OFF the joint sensor (S4).</li> </ul>
	Upper stack tray motor (down)	The upper stack tray moves down and stops when the lower stack tray lower limit sensor turns ON.		<ul style="list-style-type: none"> <li>• Press SW2 again.</li> <li>• Turn OFF the joint sensor (S4).</li> </ul>
	Lower stack tray motor (up)	The lower stack tray moves up and stops when the lower stack tray upper limit sensor is turned ON.		<ul style="list-style-type: none"> <li>• Press SW2 again.</li> <li>• Turn OFF the joint sensor (S4).</li> </ul>
	Lower stack tray motor (down)	The lower stack tray moves down and stops when the lower stack tray lower limit sensor is turned ON.		<ul style="list-style-type: none"> <li>• Press SW2 again.</li> <li>• Turn OFF the joint sensor (S4).</li> </ul>
	Stapler motor	The stapler motor stops after the stapling operation.		<ul style="list-style-type: none"> <li>• Press the stapler safety switch (S14).</li> <li>• Turn OFF the joint sensor (S4).</li> </ul>
	Shipping position operation	The upper and lower stack trays move to the shipping position and stop.		<ul style="list-style-type: none"> <li>• Turn OFF the joint sensor (S4).</li> </ul>

#### Note:

Perform the shipping position operation when the finisher is packed again.



## 3.13 Adjustment of the Finisher (MJ-1023/1024)

### Note:

Before performing each adjustment, make sure that all covers (incl. those of the finisher and host machine) are closed. Otherwise, the power is not supplied to the finisher and the adjustment may not be performed properly.

### 3.13.1 Adjusting the alignment position (Finisher unit)

Perform this adjustment after replacing the finisher controller PC board or when the alignment position must be changed for some reason.

- (1) Remove the rear cover of the finisher unit.
- (2) Check that the power is OFF and set SW104 on the finisher controller PC board as follows according to the paper used for adjustment.

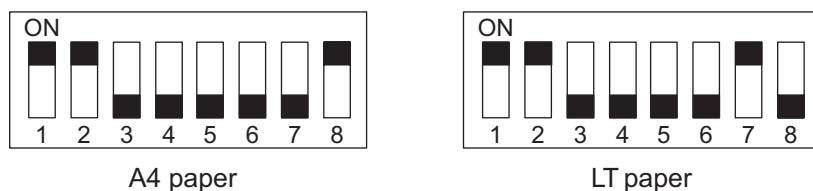


Fig. 3-132

- (3) Turn ON the power.
- (4) Press SW103 on the finisher controller PC board.
  - When SW103 is pressed, the swing guide opens and the alignment plate moves to prescribed position.
- (5) Place ten sheets of A4/LT paper between the alignment plates and push them against the stopper.
- (6) Press SW101 or SW102 on the finisher controller PC board and push the alignment plate against the paper.
  - When SW101 is pressed, alignment plate moves 0.42 mm forward.
  - When SW102 is pressed, alignment plate moves 0.42 mm backward.
- (7) When adjustment is complete, remove paper and press SW103 on the finisher controller PC board once to store the adjustment in memory.
- (8) Turn OFF all bits of finisher controller PC board SW104.
- (9) Turn OFF the power and install the rear cover of the finisher unit.

### 3.13.2 Adjusting the staple position (Finisher unit)

Perform this adjustment after replacing the finisher controller PC board or when the staple position must be changed for some reason. This adjustment adjusts the front/rear stitches with A4/A4-R when the paper used for adjustment is AB type and with LT/LT-R when the paper is INCH type.

- (1) Remove the rear cover of the finisher unit.
- (2) Check that the power is OFF and set SW104 on the finisher controller PC board as follows according to paper/stitch position used for adjustment.

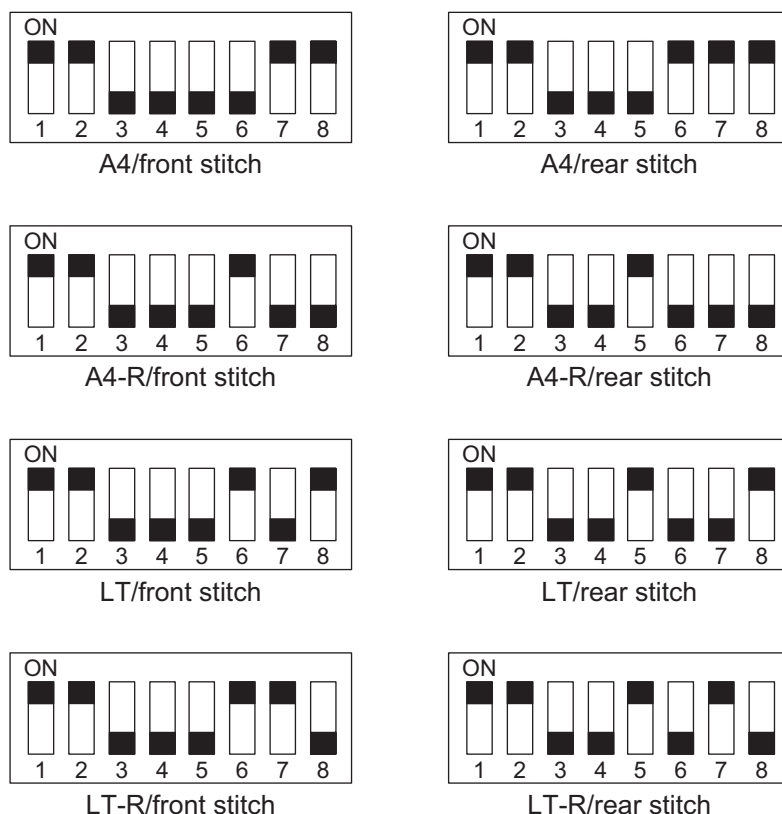


Fig. 3-133

- (3) Turn ON the power.
- (4) Press SW103 on the finisher controller PC board.
  - When SW103 is pressed, the swing guide opens and the alignment plate moves to prescribed position.
- (5) Place a sheet of paper between the alignment plates. Push it against the stopper and push the rear edge of the paper against the rear alignment plate. If the gap between the front alignment plate and front edge of the paper is 1 mm or greater, stop the staple position adjustment and repeat the staple position adjustment after completing alignment plate adjustment.
- (6) Press SW103 on the finisher controller PC board once to staple. However, remove the stapled paper manually because the paper is not ejected. Press SW103 on the finisher controller PC board once again.
- (7) Verify the staple position. If any adjustment is needed, proceed to the step 8). If no adjustment is needed, proceed to the step 9).
- (8) Press SW101 or SW102 on the finisher controller PC board to adjust the staple position.
  - When SW101 is pressed, the staple position shifts 0.49 mm to the front side.
  - When SW102 is pressed, the staple position shifts 0.49 mm to the rear side.
 Repeat the steps 5) to 7).

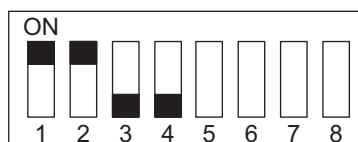
- (9) After confirming that the staple position is adjusted correctly, place a sheet of paper between the alignment plates and push it against the stopper and push the rear edge of the paper against the rear alignment plate. Then press SW103 once. (Stapling is performed and the adjustment value is stored in memory.)
  - The staple position adjustment is completed.
- (10) Turn OFF all bits of SW104 on the finisher controller PC board.
- (11) Turn OFF the power and install the rear cover of the finisher unit.

### 3.13.3 Adjusting the folding position (Saddle stitcher unit)

The folding position is adjusted by changing setting of bits 6 through 8 of SW504 on the saddle stitcher controller PC board to match the stitching position (adjusting the distance over which the paper positioning plate is moved to the folding position from the stitching position).

If you have replaced the saddle stitcher controller PC board, be sure to set the new SW504 so that the settings will be the same as those on the old SW504. Perform this adjustment if, for any reason, you must change the folding position.

- (1) Check that the power is OFF and separate the finisher from the host machine.  
If the optional puncher unit is installed, remove it from the finisher.
- (2) Remove the PC board cover and set bits 1 through 4 of SW504 on the saddle stitcher controller PC board as follows:



Do not change bits 5 through 8.

Fig. 3-134

- (3) Remove the rear cover, open the inlet cover of the saddle stitcher unit and tape the actuator of inlet cover sensor (PI9) and inlet door switch (SW1).
- (4) Before inserting the paper, mark the top of the paper. You will be using two sheets of A3 or LD paper.

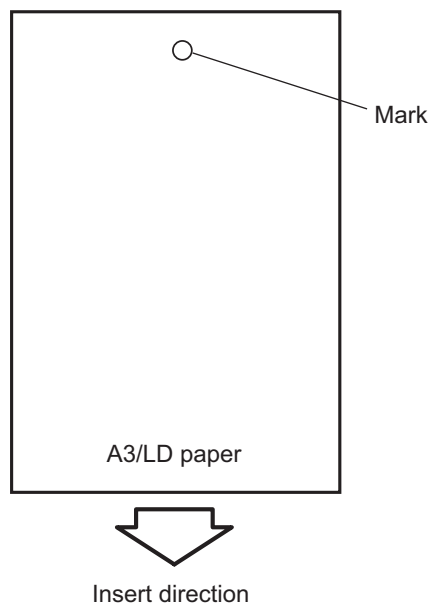
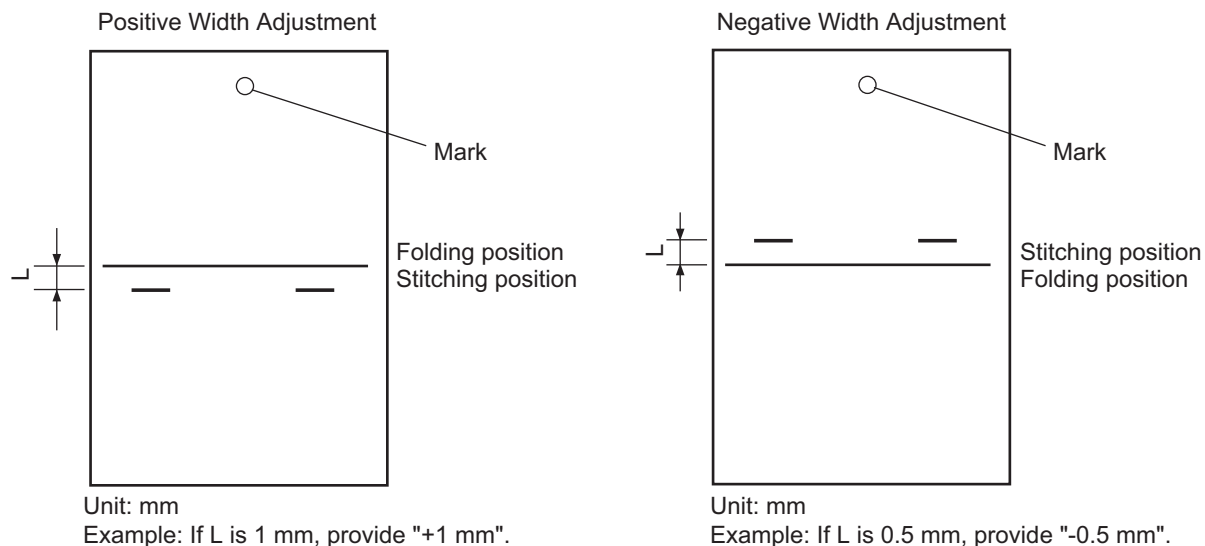


Fig. 3-135

- (5) Turn ON the power.
- (6) Press SW1 on the saddle stitcher controller PC board so that the feed motor (M1) starts to rotate.  
(Press SW1 three seconds or more if LD paper is used.)
- (7) Open the inlet cover and insert two sheets of paper. Push them in by hand until the front edge of the sheets push against the paper positioning plate.
- (8) Close the inlet cover.

- (9) Press SW1 on the saddle stitcher controller PC board.
- The saddle stitcher unit will “stitch” the sheets, and fold and deliver the stack automatically.
- (10) Measure the distance (L) between the stitching position and the folding position. Then perform “positive width adjustment” or “negative width adjustment” to suit the relationship between the stitching position and the folding position.
- If the stitching position is below the folding position, perform “positive width adjustment.”
  - If the stitching position is above the folding position, perform “negative width adjustment.”



- (11) Change the settings of bits 6 through 8 on SW504 referring to the following table.
- If the width adjustment is 0  
The stitching position and the folding position match, requiring no change.
  - If for “positive width adjustment”  
Set SW504 so that the difference resulting from subtraction of the interval from the appropriate setting in the table below is provided.  
Example: If SW504 is currently set to +2 and the interval is +1 mm, set SW504 to reflect - 2.
  - If for “negative width adjustment”  
Set SW504 so that the sum resulting from addition of the interval from the appropriate setting in the table below is provided.

Example: If SW504 is currently set to -1 and the interval is -0.5mm, set SW504 to reflect +1.

DIPSW1 bit settings			Setting (in units of 0.5 mm)
Bit 6	Bit 7	Bit 8	
OFF	ON	ON	+3
OFF	ON	OFF	+2
OFF	OFF	ON	+1
OFF	OFF	OFF	0
ON	OFF	ON	-1
ON	ON	OFF	-2
ON	ON	ON	-3

Do not use the following setting		
Bit 6	Bit 7	Bit 8
ON	OFF	OFF

- (12) Set SW504 bits 1 to 4 to OFF.

### 3.13.4 Fine adjustment of binding/folding position (Saddle stitcher unit)

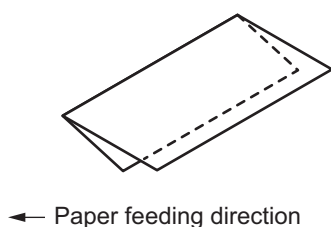
The binding position/folding position can be adjusted in the following (05) codes.

Code	Paper size	Remarks
468-0	A4-R / LT-R	When the value increases, the binding/folding position shifts toward the right page. (0.25mm/step) Acceptable values: -14 to 14 (Default: 0)
468-1	B4	
468-2	A3 / LD	

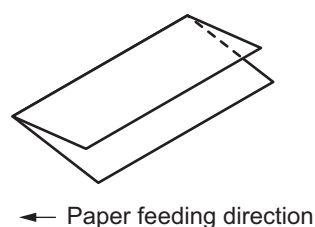
Increase the adjustment value when the sheet of paper which has exited is "A".

Decrease the adjustment value when the sheet of paper which has exited is "B".

A: When the upper side of the folding is longer than the lower side



B: When the upper side of the folding is shorter than the lower side



### 3.13.5 Sensor output adjustment (Puncher unit)

Perform this adjustment when replacing the punch controller PC board, transmittance sensor (photo-sensor PC board/LED PC board), or deflection sensor (scrap full detector PC board unit).

- (1) Check that the power is OFF and then remove the rear cover of the puncher.
- (2) Set SW601 on the punch controller PC board as shown below.



Fig. 3-136

- (3) Turn ON the power.
- (4) Press SW602 on the punch controller PC board. Sensor output is adjusted automatically when the switch is pressed.
  - Adjustment is complete if LED601 and LED602 on the punch controller PC board blinks alternately.
- (5) Press SW602 or SW603 on the punch controller PC board to end the adjustment mode and set all bits of SW601 to OFF.
- (6) Turn OFF the power.

### 3.13.6 Registering the number of punch holes (Puncher unit)

This operation registers which puncher unit is attached to the IC on the punch driver PC board so that the puncher unit can be identified by the finisher. For this reason, this operation must be performed when the punch driver PC board has been replaced.

- (1) Check that the power is OFF and then remove the rear cover of the puncher.
- (2) Set SW601 on the punch controller PC board as shown below.

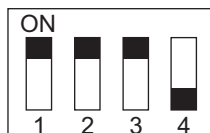


Fig. 3-137

- (3) Turn ON the power.
- (4) Press SW602 on the punch controller PC board. Sensor output is adjusted automatically when the switch is pressed.
  - Adjustment is complete if LED601 and LED602 on the punch controller PC board blinks alternately.

Number of punch holes	LED601/LED602
2 hole (E)	Blinks 1 times per cycle
2/3 hole (N)	Blinks 2 times per cycle
4 hole (F)	Blinks 3 times per cycle
4 hole (S)	Blinks 4 times per cycle

- (5) Press SW603 on the punch controller PC board. The number of punch holes is registered to the punch controller PC board each time the switch is pressed.
  - Registration is complete if LED601 and LED602 on the punch controller PC board blinks alternately.
- (6) Press SW602 or SW603 on the punch controller PC board to end the adjustment mode and set all bits of SW601 to OFF.
- (7) Turn OFF the power.



## 3.14 Adjustment of the Finisher (MJ-1101)

### Note:

Before performing each adjustment, make sure that all covers (incl. those of the finisher and host machine) are closed. Otherwise, the power is not supplied to the finisher and the adjustment may not be performed properly.

### 3.14.1 Adjusting the Alignment Position

Perform this adjustment after replacing the Finisher control board or when the alignment position must be changed for some reason.

- (1) Turn OFF the power of the equipment.
- (2) Remove 1 screw and take off the board access cover.
- (3) Set the SW1 on the Finisher control board as shown in the figures below.

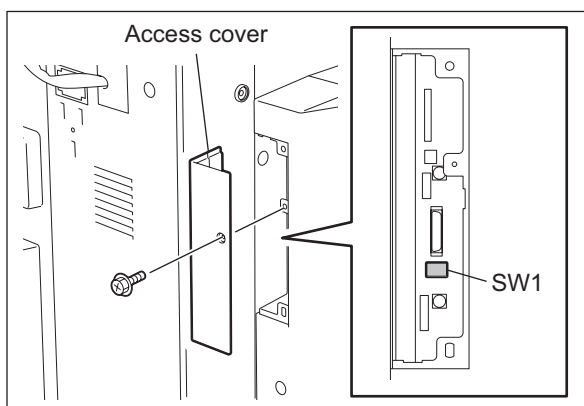


Fig. 3-138

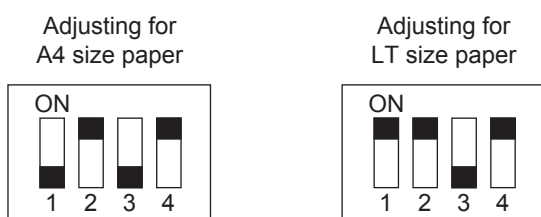
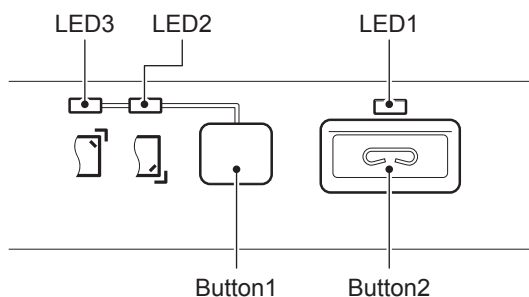


Fig. 3-139

- (4) Turn ON the power of the equipment while [0] button and [8] button are pressed simultaneously. The alignment plate moves to the A4 or LT size position and stops.  
(It stops at the position of -5 steps from the center value of the adjustment range.)

- (5) Press the [Button1] to adjust the alignment position.  
 Every time the [Button1] is pressed, the alignment plate shifts 1 step (0.419 mm/step) toward the “+” direction. (The gap between the alignment plates becomes narrower.)  
 Adjustment range is from -5 to +5 steps.  
 If the [Button1] is pressed when the alignment position is at the “+5 step”, the plate will return to the home position and then moves to the position of “-5 step”.



**Fig. 3-140**

- (6) When the adjustment is completed, press the [Button2] on the finisher control panel to store the adjustment value in memory.  
 When the value is stored normally, the [LED1] on the control panel will blink for a number of times that corresponds to the adjustment value set for the equipment.  
 See the following table for the number of times the [LED1] blinks and its corresponding adjustment value.

Number of Blinking	Adjustment Value
1	-5
2	-4
3	-3
4	-2
5	-1
6	0
7	+1
8	+2
9	+3
10	+4
11	+5

- (7) Turn OFF the power of the equipment.  
 (8) Turn OFF all bits of the SW1 on the Finisher control board.  
 (9) Install the board access cover.

### 3.14.2 Adjusting the Stapling Position

Perform this adjustment after replacing the Finisher control board or when the stapling position must be changed for some reason.

- (1) Turn OFF the power of the equipment.
- (2) Remove 1 screw and take off the board access cover.
- (3) Set the SW1 on the Finisher control board as shown in the figures below.

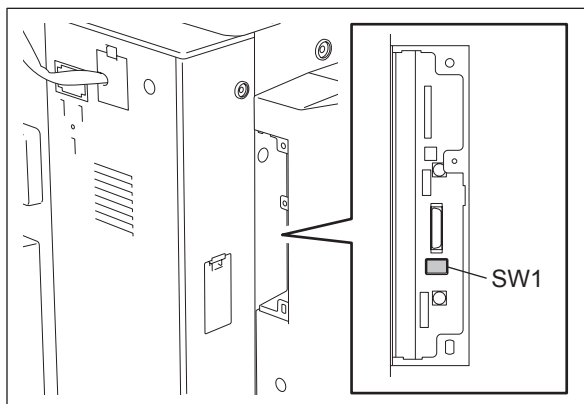
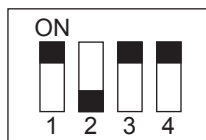
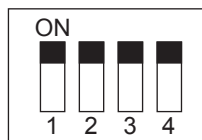


Fig. 3-141

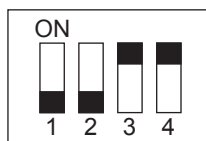
When adjusting the rear side for A4 size paper



When adjusting the rear side for LT size paper



When adjusting the front side for A4 size paper



When adjusting the front side for LT size paper

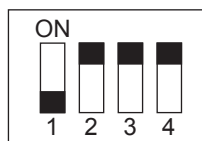


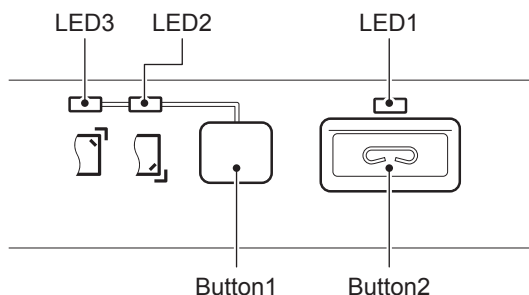
Fig. 3-142

- (4) Turn ON the power of the equipment while [0] button and [8] button are pressed simultaneously. The alignment plate moves to the rear or front side stapling position and stops. (It stops at the position of -20 steps from the center value of the adjustment range.)

- (5) Press [Button 1] to adjust the stapling position.  
 Every time [Button 1] is pressed, the alignment plate shifts 4 steps (0.45 mm) toward the "+" direction. (It moves toward the rear side.)  
 Adjustment range is from -20 to +20 steps. If [Button 1] is pressed when the alignment position is at the "+20 steps", the plate will return to the home position and then moves to the position of "-20 steps".

**Note:**

Stapling for checking the position can be done by pressing [Button 2] with sheets placed on the finishing tray. (stapled on the rear side)



**Fig. 3-143**

- (6) When the adjustment is completed, press [Button 2] on the finisher control panel to store the adjustment value in memory without sheets on the finishing tray.  
 When the value is stored normally, [LED 1] on the control panel will blink for a number of times that corresponds to the adjustment value set for the equipment.  
 See the following table for the number of times [LED 1] blinks and its corresponding adjustment value.

Number of blinking	Adjustment value
1	-20
2	-16
3	-12
4	-8
5	-4
6	0
7	+4
8	+8
9	+12
10	+16
11	+20

- (7) Turn OFF the power of the equipment.  
 (8) Turn OFF all bits of the SW1 on the Finisher control board.  
 (9) Install the board access cover.

### 3.14.3 B4-size recycled paper mode settings

Set this mode if the trailing edge of the paper gets caught by the exit section of the finisher while B4-size recycled paper is used. This mode increases the paper exiting speed when the paper exits to the movable tray in the sort mode, or to the stationary tray in the non-sort mode.

- (1) Turn OFF the power of the equipment.
- (2) Remove 1 screw and take off the board access cover.
- (3) Set the SW1 on the Finisher control board as shown in the figures below.

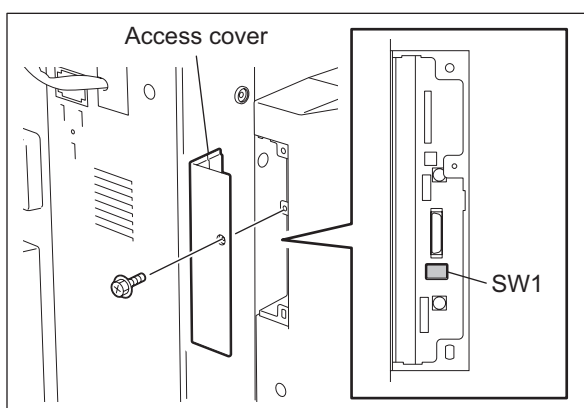


Fig. 3-144

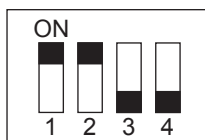


Fig. 3-145

- (4) Turn ON the power of the equipment while [0] button and [8] button are pressed simultaneously.

- (5) Press [Button1] and [Button2] as described in the following table to set the B4-size recycled paper mode. Press [Button1] and [Button2] on the control panel as below to set the B4-size recycled paper mode.

**Note:**

Be sure to press [Button1] and [Button2] the correct number of times.  
Press [Button1] and [Button2] simultaneously to cancel the operation.

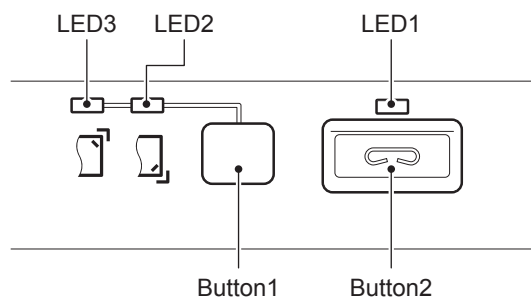


Fig. 3-146

**B4-size recycled paper mode**

Step	Buttons	Number of pressing	Remarks
1	Button1	1	
2	Button2	1	Confirms the input value
3	Button1	8	
4	Button2	1	Confirms the input value

**Note:**

To change settings from the B4-size recycled paper mode to the normal mode, perform steps (1) through (4), and then press [Button1] and [Button2] on the control panel as shown below to set the normal mode.

**Normal mode**

Step	Buttons	Number of pressing	Remarks
1	Button1	1	
2	Button2	1	Confirms the input value
3	Button1	6	
4	Button2	1	Confirms the input value

- (6) When the settings are stored normally, [LED1] on the control panel is lit. [LED1] blinks, if an error occurs. In this case, turn the power OFF and make the settings again from step (4).
- (7) Turn OFF the power of the equipment.
- (8) Turn OFF all bits of the SW1 on the Finisher control board.
- (9) Install the board access cover.

### 3.14.4 Stopping Position Adjustment (MJ-6101:Puncher unit)

This adjustment can change the position where paper transport stops during the punching operation. Perform this adjustment when you adjust the punching position on the paper in the transporting direction.

- (1) Turn the power of the equipment OFF.
- (2) Take off the board access cover of the Finisher. Then set SW1 (DIP-SW) on the finisher control PC board as shown below.

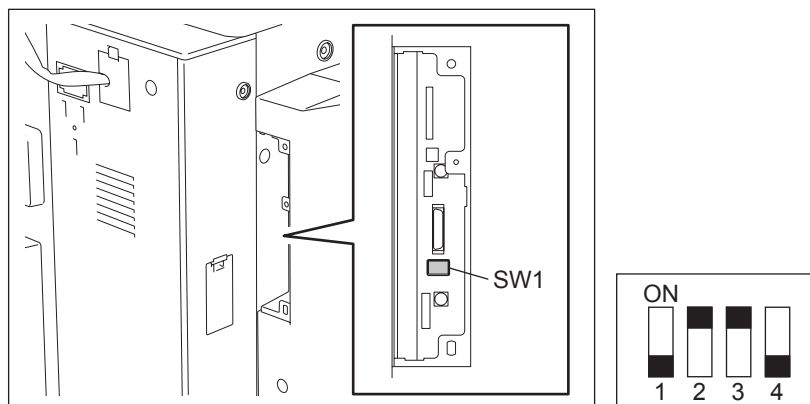


Fig. 3-147

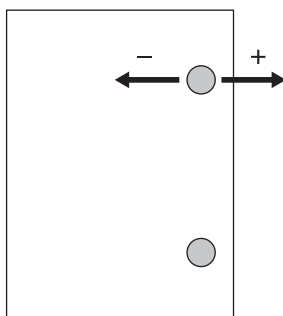
- (3) Turn the power of the equipment ON. The finisher enters into the stopping position adjustment mode.
- (4) LED1 on the finisher control panel blinks. The number of times it blinks indicates the current adjustment value.

- (5) Press Button1 on the finisher control panel to change the adjustment value. The number of times LED1 blinks changes in ascending order (e.g. 1, 2, 3... 11) each time you press Button1

Number of LED1's blinking	Adjustment value*	Distance moved
1	-5	1.10 mm
2	-4	0.88 mm
3	-3	0.66 mm
4	-2	0.44 mm
5	-1	0.22 mm
6	0	0 mm (Reference position)
7	+1	0.22 mm
8	+2	0.44 mm
9	+3	0.66 mm
10	+4	0.88 mm
11	+5	1.10 mm

**Note:**

When the adjustment value goes further in minus numbers in the table above, the distance between the paper edge and the holes becomes wider. When it goes further in plus numbers, this distance becomes narrower.



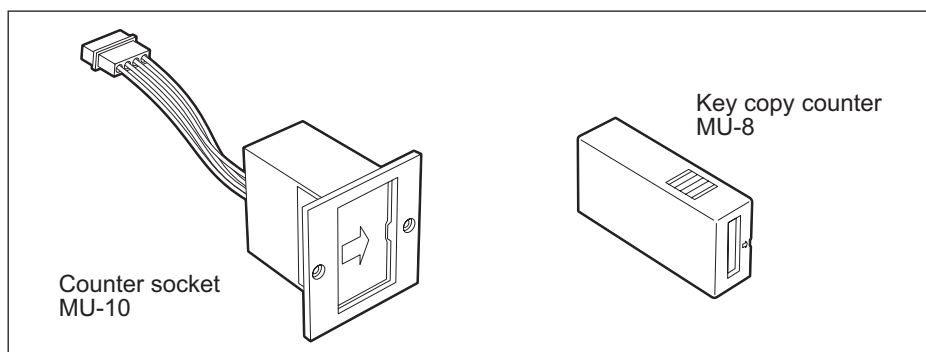
**Fig. 3-148**

- (6) When the value change is completed, press Button2 on the finisher control panel to determine the adjustment value. (The adjustment value is written into the flash ROM.)
- (7) Turn the power of the equipment OFF.
- (8) Turn all the bits of SW1 (DIP-SW) on the finisher control PC board OFF.
- (9) Install the board access cover of the Finisher.



### 3.15 Key Copy Counter (MU-8, MU-10)

To make a key copy counter available, the following 2 components must be installed to the equipment.



#### <Installation procedure>

- (1) Remove the right upper cover.
- (2) Open the bypass tray, ADU, jam access cover and fuser unit cover. Take off the IH terminal cover.
- (3) Remove the right rear cover, and cut open the window for the key copy counter.

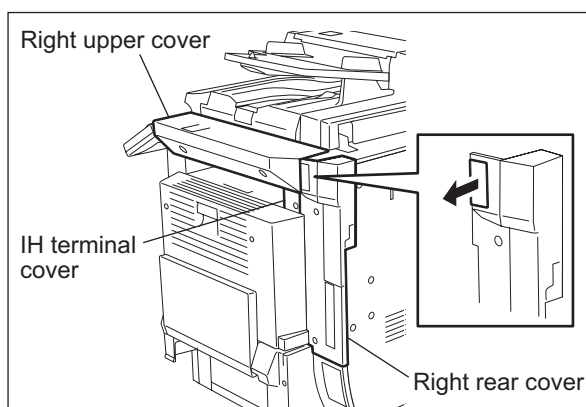


Fig. 3-149

- (4) Pull out the harness connector from the hole of the machine frame, and cut the short harness of the connector. (Treat the cut harness properly to avoid it causing a short circuit with the machine frame.) Then, disconnect the dummy connector.

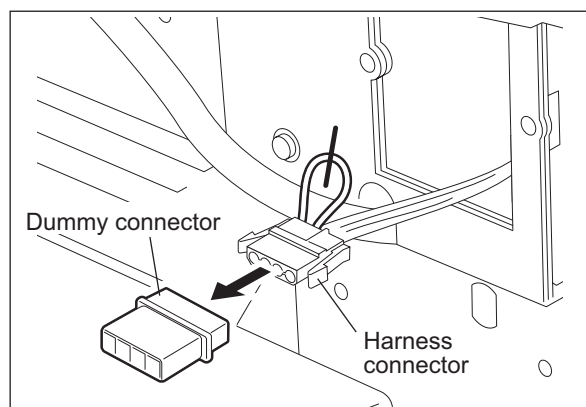
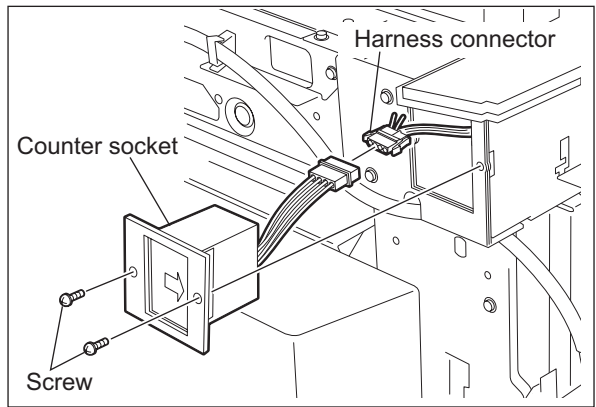


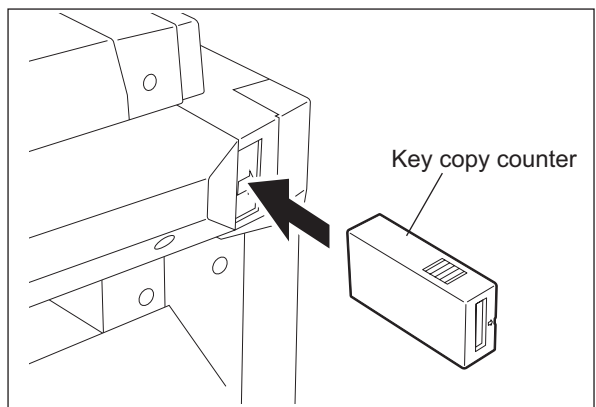
Fig. 3-150

- (5) Connect the connector of the counter socket to the harness connector of the equipment side.
- (6) Install the counter socket to the machine frame with two M3 screws.
- (7) Reattach the cover.



**Fig. 3-151**

- (8) Insert the key copy counter with its arrow mark pointing the rear side of the equipment.



**Fig. 3-152**

- (9) Enter the value "3" in the setting mode (08-202).

### 3.16 Adjustment of Dogleg

Dogleg is the name given to an image which is deformed approx. 44 mm of the trailing edge of the output paper.

Since adjustment has usually been performed when the equipment was manufactured, dogleg image should not occur. However, if the following dogleg image A or B does happen to occur, the following adjustment must be performed. An original with a line parallel to the feeding direction is used for the adjustment.

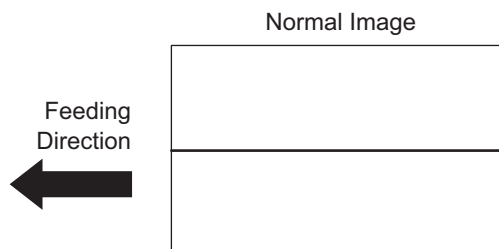


Fig. 3-153

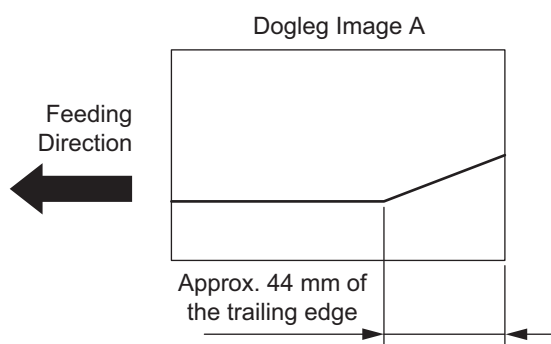


Fig. 3-154

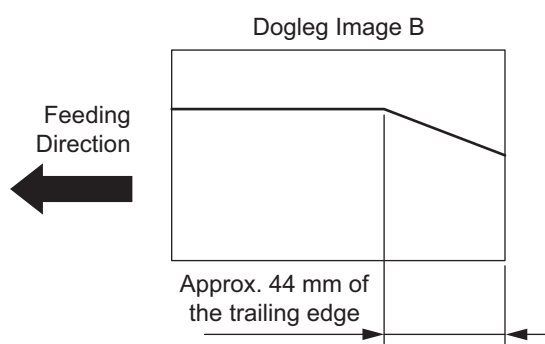


Fig. 3-155

### <Preparation>

- (1) Take off the front cover, right upper cover and the paper exit tray.
- (2) Remove the upper drawer, and then open the bypass tray and the ADU.
- (3) Take off the right front cover.
- (4) Open the jam access cover.

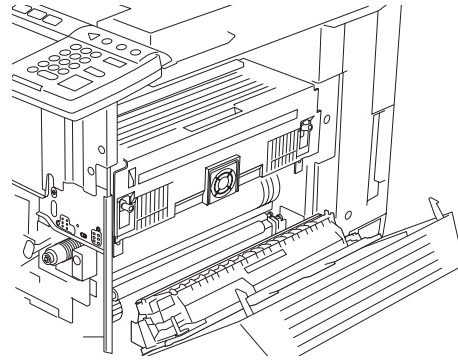


Fig. 3-156

### <Adjustment procedure>

- (1) Check the scale position. (See Fig. 3-157.)
- (2) Loosen 2 screws so that the fuser unit and its lower stay can move.
- (3)
  - For dogleg image A  
Move the lower stay of the fuser unit upward from the position in Step 1 by 0.5 on the scale, and then tighten the screws.
  - For dogleg image B  
Move the lower stay of the fuser unit downward from the position in Step 1 by 0.5 on the scale, and then tighten the screws.

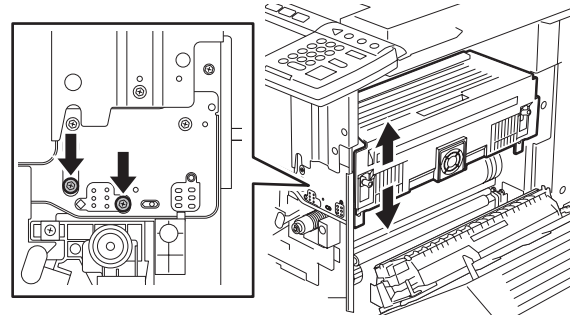


Fig. 3-158

#### Note:

Be sure to match the height of both right and left scales.

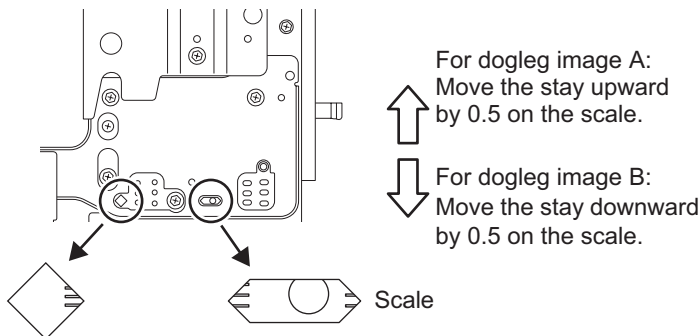



Fig. 3-157

- (4) Check the copy image and repeat Step 1 to 3 if further adjustment is needed..

## 5. TROUBLESHOOTING

When any of the PC boards or the HDD requires replacement, refer to  P. 5-132 "5.3 Replacement of PC Boards and HDD"

### 5.1 Diagnosis and Prescription for Each Error Code

#### 5.1.1 Paper transport jam

**[E010] Leading edge of paper not reaching the exit sensor**

**[E020] Trailing edge of paper not passing the exit sensor**

Open the jam access cover. Is there any paper on the transport path?

↓ YES → Remove the paper.

↓ NO

Is the exit sensor working? (Perform the input check in the test mode: 03-[FAX]ON/[2]/[B]).

↓ NO →

- 1) Check if the connector of the exit sensor is disconnected.
- 2) Check if the connector CN302 on the LGC board is disconnected.
- 3) Check if the connector pins are disconnected and the harnesses are open circuited.
- 4) Check if the conductor pattern on the LGC board is short circuited or open circuited.
- 5) Replace the exit sensor.
- 6) Replace the LGC board.

↓ YES

Is the registration clutch working? (Perform the output check in the test mode: 03-108/158).

↓ NO →

- 1) Check if the connector of the registration clutch is disconnected.
- 2) Check if the connector CN318 on the LGC board is disconnected.
- 3) Check if the connector pins are disconnected and the harnesses are open circuited.
- 4) Check if the conductor pattern on the LGC board is short circuited or open circuited.
- 5) Replace the registration clutch.
- 6) Replace the LGC board.

↓ YES

Check the registration roller. Replace it if it is worn out.

**[E030] Paper remaining inside the equipment at power-ON**

Open the cover of the unit/area whose picture is blinking on the control panel. Is there any paper on the transport path? (Refer to the following table.)

↓ YES → Remove the paper.

NO

Is the sensor in the jamming area working?

(Perform the input check in the test mode: refer to the following table.)

↓ NO →

- 1) Check if the connector of the exit sensor is disconnected.
- 2) Check if any of the connectors on the LGC board is disconnected.
- 3) Check if the connector pins are disconnected and the harnesses are open circuited.
- 4) Check if the conductor pattern on the LGC board is short circuited or open circuited.
- 5) Replace the sensor.
- 6) Replace the LGC board.

↓ YES

Replace the LGC board.

Relation between the jamming area and the corresponding sensors and covers (If a jam is occurring in the ADU, LCF, PFP, JSP or OCT check the board in each unit.)

Jamming area	Cover	Sensor	Test mode / Input check
Registration area	Jam access cover	Registration sensor	03-[FAX]ON/[2]/[A]
		Upper drawer feed sensor	03-[FAX]OFF/[6]/[E]
Exit area	Jam access cover	Exit sensor	03-[FAX]ON/[2]/[B]
ADU	ADU	ADU entrance sensor	03-[FAX]OFF/[1]/[H]
		ADU exit sensor	03-[FAX]OFF/[1]/[G]
Bypass unit	Bypass unit	Bypass feed sensor	03-[FAX]ON/[4]/[F]
Feeding area (Main unit)	Side cover	Lower drawer feed sensor	03-[FAX]OFF/[7]/[E]
LCF	LCF side cover	LCF feed sensor	03-[FAX]OFF/[5]/[G]
PFP	PFP side cover	PFP upper drawer feed sensor	03-[FAX]OFF/[2]/[D]
		PFP lower drawer feed sensor	03-[FAX]OFF/[4]/[D]
Bridge unit	Bridge unit	Bridge unit transport sensor-1	03-[FAX]ON/[3]/[H]
		Bridge unit transport sensor-2	03-[FAX]ON/[3]/[E]
JSP	JSP cover	JSP feed sensor	03-[FAX]ON/[3]/[H]
OCT	OCT cover	OCT feed sensor	03-[FAX]ON/[3]/[H]

**[E061] Incorrect paper size setting for upper drawer (e-STUDIO352/353/452/453)****[E062] Incorrect paper size setting for lower drawer (e-STUDIO352/353/452/453)****[E063] Incorrect paper size setting for PFP upper drawer (e-STUDIO352/353/452/453)****[E064] Incorrect paper size setting for PFP lower drawer (e-STUDIO352/353/452/453)****[E065] Incorrect paper size setting for bypass tray (e-STUDIO352/353/452/453)**

If any paper remains in the equipment or drawer, remove it. Match the paper size of the drawer setting and the one in the drawer.

\* Paper size detection is performed at the first sheet of paper when the drawer is opened or closed, or when the power of the equipment is turned ON.

**[E090] Paper jam by HDD abnormality**

- 1) Check if the error is cleared by turning the power OFF and then back ON.
- 2) Check if the connectors of the HDD are disconnected.
- 3) Check if the connector pins are disconnected and the harnesses are open circuited.
- 4) Replace the HDD.
- 5) Replace the SYS board.

**[E200] Paper fed from the upper drawer not reaching the registration sensor**

**[E210] Paper fed from the lower drawer not reaching the registration sensor**

**[E300] Paper fed from the PFP upper drawer not reaching the registration sensor**

**[E330] Paper fed from the PFP lower drawer not reaching the registration sensor**

**[E3C0] Paper fed from the LCF not reaching the registration sensor**

Open the jam access cover. Is there paper in front of the registration sensor?

↓ YES → Remove the paper.

NO

Is the registration sensor working?

(Perform the input check in the test mode: 03-[FAX]ON/[2]/[A])

- NO →
- 1) Check if the connector of the registration sensor is disconnected.
  - 2) Check if the connector CN318 on the LGC board is disconnected.
  - 3) Check if the connector pins are disconnected and the harnesses are open circuited.
  - 4) Check if the conductor pattern on the LGC board is short circuited or open circuited.
  - 5) Replace the registration sensor.
  - 6) Replace the LGC board.

↓ YES

Are the transport clutches (high/low speed) working?

(Perform the output check in the test mode: 03-203, 205)

- NO →
- 1) Check if the connectors of the transport clutches (high/low speed) are disconnected.
  - 2) Check if the connector CN306 on the LGC board is disconnected.
  - 3) Check if the connector pins are disconnected and the harnesses are open circuited.
  - 4) Check if the conductor pattern on the LGC board is short circuited or open circuited.
  - 5) Replace the transport clutches (high/low speed).
  - 6) Replace the LGC board.

↓ YES

- 1) Check the condition of the feed roller, separation roller and pickup roller of each paper source, and replace them if they are worn out.
- 2) Check the transport roller. Replace it if it is worn out.

**[E220] Paper fed from the lower drawer not reaching the upper drawer feed sensor**  
**[E310] Paper fed from the PFP upper drawer not reaching the upper drawer feed sensor**  
**[E340] Paper fed from the PFP lower drawer not reaching the upper drawer feed sensor**  
**[E3D0] Paper fed from the LCF not reaching the upper drawer feed sensor**

Open the jam access cover. Is there paper in front of the upper drawer feed sensor?

↓ YES → Remove the paper.

↓ NO

Is the upper drawer feed sensor working?

(Perform the input check in the test mode: 03-[FAX]OFF/[6]/[E]).

↓ NO →

- 1) Check if the connector of the upper drawer feed sensor is disconnected.
- 2) Check if the connector CN318 on the LGC board is disconnected.
- 3) Check if the connector pins are disconnected and the harnesses are open circuited.
- 4) Check if the conductor pattern on the LGC board is short circuited or open circuited.
- 5) Replace the upper drawer feed sensor.
- 6) Replace the LGC board.

↓ YES

Are the transport clutches (high/low speed) working?

(Perform the output check in the test mode: 03-203, 205)

↓ NO →

- 1) Check if the connectors of the transport clutches (high/low speed) are disconnected.
- 2) Check if the connector CN306 on the LGC board is disconnected.
- 3) Check if the connector pins are disconnected and the harnesses are open circuited.
- 4) Check if the conductor pattern on the LGC board is short circuited or open circuited.
- 5) Replace the transport clutches (high/low speed).
- 6) Replace the LGC board.

↓ YES

- 1) Check the condition of the feed roller, separation roller and pickup roller of each paper source, and replace them if they are worn out.
- 2) Check the transport roller. Replace it if it is worn out.



**[E320] Paper fed from the PFP upper drawer not reaching the lower drawer feed sensor**

**[E350] Paper fed from the PFP lower drawer not reaching the lower drawer feed sensor**

**[E3E0] Paper fed from the LCF not reaching the lower drawer feed sensor**

Open the side cover. Is there paper in front of the lower drawer feed sensor?

↓ YES → Remove the paper.

NO

Is the lower drawer feed sensor working?

(Perform the input check in the test mode: 03-[FAX]OFF/[7]/[E]).

↓ NO →

- 1) Check if the connector of the lower drawer feed sensor is disconnected.
- 2) Check if the connector CN318 on the LGC board is disconnected.
- 3) Check if the connector pins are disconnected and the harnesses are open circuited.
- 4) Check if the conductor pattern on the LGC board is short circuited or open circuited.
- 5) Replace the lower drawer feed sensor.
- 6) Replace the LGC board.

↓ YES

Are the transport clutches (high/low speed) working?

(Perform the output check in the test mode: 03-203, 205).

↓ NO →

- 1) Check if the connectors of the transport clutches (high/low speed) are disconnected.
- 2) Check if the connector CN306 on the LGC board is disconnected.
- 3) Check if the connector pins are disconnected and the harnesses are open circuited.
- 4) Check if the conductor pattern on the LGC board is short circuited or open circuited.
- 5) Replace the transport clutches (high/low speed).
- 6) Replace the LGC board.

↓ YES

Is the PFP transport clutch working? (Perform the output check in the test mode: 03-225)

↓ NO →

- 1) Check if the connector of the PFP transport clutch is disconnected.
- 2) Check if any of the connectors CN241, CN242 and CN244 on the PFP board is disconnected.
- 3) Check if the connector CN303 on the LGC board is disconnected.
- 4) Check if the connector pins are disconnected and the harnesses are open circuited.
- 5) Check if the conductor pattern on the PFP board and LGC board are short circuited or open circuited.
- 6) Replace the PFP transport clutch.
- 7) Replace the PFP board.
- 8) Replace the LGC board.

↓ YES

- 1) Check the condition of the feed roller, separation roller and pickup roller of each paper source, and replace them if they are worn out.
- 2) Check the transport roller. Replace it if it is worn out.

**[E360] Paper fed from the PFP lower drawer not reaching the PFP upper drawer feed sensor**

Open the PFP side cover. Is there any paper in front of the PFP upper drawer feed sensor?

↓ YES → Remove the paper.

NO

Is the PFP upper drawer feed sensor working?

(Perform the input check in the test mode: 03-[FAX]OFF/[2]/[D])

- ↓ NO →
- 1) Check if the connector of the PFP upper drawer feed sensor is disconnected.
  - 2) Check if either of the connectors CN241 or CN243 on the PFP board is disconnected.
  - 3) Check if the connector CN303 on the LGC board is disconnected.
  - 4) Check if the connector pins are disconnected and the harnesses are open circuited.
  - 5) Check if the conductor patterns on the PFP board and LGC board are short circuited or open circuited.
  - 6) Replace the PFP upper drawer feed sensor.
  - 7) Replace the PFP board.
  - 8) Replace the LGC board.

↓ YES

Is the PFP transport clutch working? (Perform the output check in the test mode: 03-225)

- ↓ NO →
- 1) Check if the connector of the PFP transport clutch is disconnected.
  - 2) Check if any of the connectors CN241, CN242 and CN244 on the PFP board is disconnected.
  - 3) Check if the connector CN303 on the LGC board is disconnected.
  - 4) Check if the connector pins are disconnected and the harnesses are open circuited.
  - 5) Check if the conductor patterns on the PFP board and LGC board are short circuited or open circuited.
  - 6) Replace the PFP transport clutch.
  - 7) Replace the PFP board.
  - 8) Replace the LGC board.

↓ YES

- 1) Check the condition of the feed roller, separation roller and pickup roller of each paper source, and replace them if they are worn out.
- 2) Check the PFP transport roller. Replace it if it is worn out.

**[E510] ADU stack jam (paper not reaching the ADU entrance sensor)**

Open the ADU. Is there any paper in front of the ADU entrance sensor?

↓ YES → Remove the paper.

NO

Is the ADU entrance sensor working?

(Perform the input check in the test mode: 03-[FAX]OFF/[1]/[H])

- ↓ NO →
- 1) Check if the connector of the ADU entrance sensor is disconnected.
  - 2) Check if either of the connectors CN211 or CN214 on the ADU board is disconnected.
  - 3) Check if the connector CN304 on the LGC board is disconnected.
  - 4) Check if the connector pins are disconnected and the harnesses are open circuited.
  - 5) Check if the conductor patterns on the ADU board and LGC board are short circuited or open circuited.
  - 6) Replace the ADU entrance sensor.
  - 7) Replace the ADU board.
  - 8) Replace the LGC board.

↓ YES

Is the exit motor (rotating in reverse) working?

(Perform the output check in the test mode: 03-121/171)

- ↓ NO →
- 1) Check if the connector of the exit motor is disconnected.
  - 2) Check if the connector CN302 on the LGC board is disconnected.
  - 3) Check if the connector pins are disconnected and the harnesses are open circuited.
  - 4) Check if the conductor pattern on the LGC board is short circuited or open circuited.
  - 5) Replace the exit motor.
  - 6) Replace the LGC board.

↓ YES

Is the ADU motor working? (Perform the output check in the test mode: 03-110/160)

- ↓ NO →
- 1) Check if the connector of the ADU motor is disconnected.
  - 2) Check if any of the connectors CN211, CN212 and CN215 on the ADU board is disconnected.
  - 3) Check if the connector CN304 on the LGC board is disconnected.
  - 4) Check if the connector pins are disconnected and the harnesses are open circuited.
  - 5) Check if the conductor patterns on the ADU board and LGC board are short circuited or open circuited.
  - 6) Replace the ADU motor.
  - 7) Replace the ADU board.
  - 8) Replace the LGC board.

↓ YES

Check the rollers in the ADU and the exit roller of the equipment. Replace them if they are worn out.

**[E520] ADU transport jam (paper not reaching the ADU exit sensor)**

Open the ADU. Is there any paper in front of the ADU exit sensor?

↓ YES → Remove the paper.

NO

Is the ADU exit sensor working?

(Perform the input check in the test mode: 03-[FAX]OFF/[1]/[G])

- ↓ NO →
- 1) Check if the connector of the ADU exit sensor is disconnected.
  - 2) Check if either of the connectors CN211 or CN213 on the ADU board is disconnected.
  - 3) Check if the connector CN304 on the LGC board is disconnected.
  - 4) Check if the connector pins are disconnected and the harnesses are open circuited.
  - 5) Check if the conductor patterns on the ADU board and LGC board are short circuited or open circuited.
  - 6) Replace the ADU exit sensor.
  - 7) Replace the ADU board.
  - 8) Replace the LGC board.

↓ YES

Is the ADU clutch working? (Perform the output check in the test mode: 03-222)

- ↓ NO →
- 1) Check if the connector of the ADU clutch is disconnected.
  - 2) Check if the connector CN304 on the LGC board is disconnected.
  - 3) Check if the connector pins are disconnected and the harnesses are open circuited.
  - 4) Check if the conductor pattern on the LGC board is short circuited or open circuited.
  - 5) Replace the ADU clutch.
  - 6) Replace the LGC board.

↓ YES

Check the rollers in the ADU. Replace them if they are worn out.

**[E550] Paper remaining on the transport path**

Open the cover of the unit/area whose picture is blinking on the control panel. Is there any paper on the transport path?

↓ YES → Remove the paper.

NO

Is the sensor in the jamming area working?

(Perform the input check in the test mode: refer to the following table)

NO →

- 1) Check if the connector of the sensor is disconnected.
- 2) Check if any of the connectors on the LGC board is disconnected.
- 3) Check if the connector pins are disconnected and the harnesses are open circuited.
- 4) Check if the conductor pattern on the LGC board is short circuited or open circuited.
- 5) Replace the sensor.
- 6) Replace the LGC board.

↓ YES

Replace the LGC board.

Relation between the jamming area and the corresponding sensors/covers (If a jam is occurring in the ADU, LCF, PFP, JSP or OCT check the board in each unit.)

Jamming area	Cover	Sensor	Test mode / Input check
Registration area	Jam access cover	Registration sensor	03-[FAX]ON/[2]/[A]
		Upper drawer feed sensor	03-[FAX]OFF/[6]/[E]
Exit area	Jam access cover	Exit sensor	03-[FAX]ON/[2]/[B]
ADU	ADU	ADU entrance sensor	03-[FAX]OFF/[1]/[H]
		ADU exit sensor	03-[FAX]OFF/[1]/[G]
Bypass unit	Bypass unit	Bypass feed sensor	03-[FAX]ON/[4]/[F]
Feeding area (Main unit)	Side cover	Lower drawer feed sensor	03-[FAX]OFF/[7]/[E]
LCF	LCF side cover	LCF feed sensor	03-[FAX]OFF/[5]/[G]
PFP	PFP side cover	PFP upper drawer feed sensor	03-[FAX]OFF/[2]/[D]
		PFP lower drawer feed sensor	03-[FAX]OFF/[4]/[D]
Bridge unit	Bridge unit	Bridge unit transport sensor-1	03-[FAX]ON/[3]/[H]
		Bridge unit transport sensor-2	03-[FAX]ON/[3]/[E]
JSP	JSP cover	JSP feed sensor	03-[FAX]ON/[3]/[H]
OCT	OCT cover	OCT feed sensor	03-[FAX]ON/[3]/[H]
Finisher	Finisher door	Sensors in the finisher	-

**[E950] Jam not reaching the JSP feed sensor**

**[E951] Stop jam at the JSP feed sensor**

Open the JSP cover. Is there any paper on the transport path?

↓ YES → Remove the paper.

NO

Is the JSP feed sensor working? (Perform the input check in the test mode:03-[FAX]ON/[3]/[H])

- ↓ NO →
- 1) Check if the connector of the JSP feed sensor is disconnected.
  - 2) Check if either of the connectors CN260 or CN261 on the JSP board is disconnected.
  - 3) Check if the connector CN302 on the LGC board is disconnected.
  - 4) Check if the connector pins are disconnected and the harnesses are open circuited.
  - 5) Check if the conductor patterns on the JSP board and LGC board are short circuited or open circuited.
  - 6) Replace the JSP feed sensor.
  - 7) Replace the JSP board.
  - 8) Replace the LGC board.

↓ YES

- 1) Replace the JSP board.
- 2) Replace the LGC board.

**[E960] Jam not reaching the OCT feed sensor**

**[E961] Stop jam at the OTC feed sensor**

Open the OTC cover. Is there any paper on the transport path?

↓ YES → Remove the paper.

NO

Is the OTC feed sensor working?

(Perform the input check in the test mode: 03-[FAX]ON/[3]/[H])

- ↓ NO →
- 1) Check if the connector of the OTC feed sensor is disconnected.
  - 2) Check if either of the connectors CN260 or CN261 on the OTC board is disconnected.
  - 3) Check if the connector CN302 on the LGC board is disconnected.
  - 4) Check if the connector pins are disconnected and the harnesses are open circuited.
  - 5) Check if the conductor patterns on the OTC board and LGC board are short circuited or open circuited.
  - 6) Replace the OTC feed sensor.
  - 7) Replace the OTC board.
  - 8) Replace the LGC board.

↓ YES

- 1) Replace the OTC board.
- 2) Replace the LGC board.

**[EB50] Paper left on the transport path due to multiple feeding**

In case the paper is fed from the upper drawer, bypass unit or ADU:

Open the jam access cover. Is there any paper in front of the registration sensor?

↓ YES → Remove the paper.

NO

When the paper is fed from the upper drawer:

Is the upper drawer feed sensor working? (Perform the input check: 03-[FAX]ON/[6]/[E])

- ↓ NO →
- 1) Check if the connector of the upper drawer feed sensor is disconnected.
  - 2) Check if the connector CN318 on the LGC board is disconnected.
  - 3) Check if the connector pins are disconnected or the harnesses are open circuited.
  - 4) Check if the conductor pattern on the LGC board is short circuited or open circuited.
  - 5) Replace the upper drawer feed sensor.
  - 6) Replace the LGC board.

↓ YES

When the paper is fed from the bypass feed unit:

Is the bypass feed sensor working? (Perform the input check: 03-[FAX]ON/[4]/[F])

- ↓ NO →
- 1) Check if the connector of the bypass feed sensor is disconnected.
  - 2) Check if the connector CN304 on the LGC board is disconnected.
  - 3) Check if the connector pins are disconnected or the harnesses are open circuited.
  - 4) Check if the conductor pattern on the LGC board is short circuited or open circuited.
  - 5) Replace the bypass feed sensor.
  - 6) Replace the LGC board.

↓ YES

When the paper is fed from the ADU:

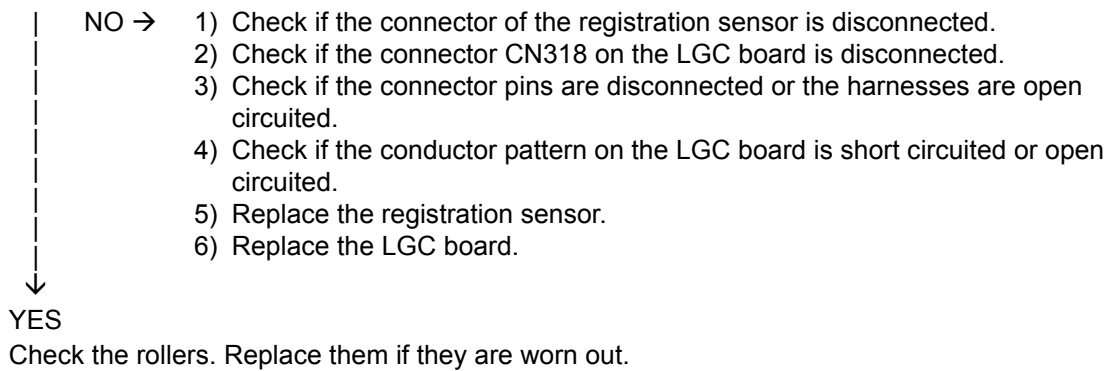
Is the ADU exit sensor working? (Perform the input check: 03-[FAX]OFF/[1]/[G])

- ↓ NO →
- 1) Check if the connector of the ADU exit sensor is disconnected.
  - 2) Check if either of the connectors CN211 or CN213 on the ADU board is disconnected.
  - 3) Check if the connector CN304 on the LGC board is disconnected.
  - 4) Check if the connector pins are disconnected or the harnesses are open circuited.
  - 5) Check if the conductor patterns on the ADU board and LGC board are short circuited or open circuited.
  - 6) Replace the ADU exit sensor.
  - 7) Replace the ADU board.
  - 8) Replace the LGC board.

↓ YES

Is the registration sensor working?

(Perform the input check in the test mode: 03-[FAX]ON/[2]/[A])



In case the paper is fed from the lower drawer, PFP or LCF:

Open the jam access cover. Is there any paper in front of the upper drawer feed sensor?

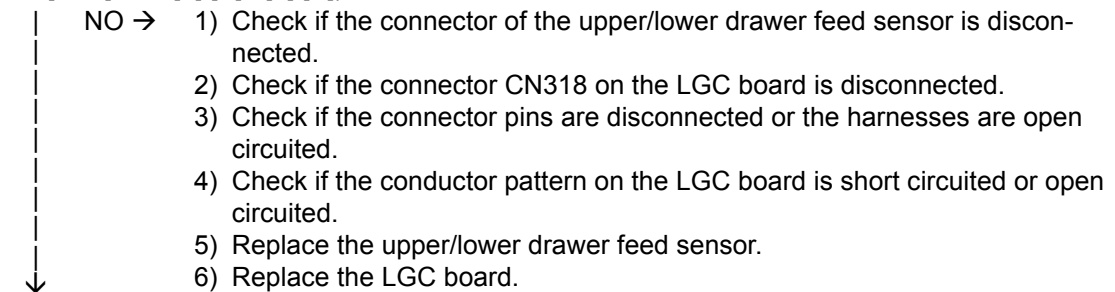
↓

YES → Remove the paper.

↓

NO

Are the upper/lower drawer feed sensor working? (Perform the input check in the test mode: 03-[FAX]OFF/[6]/[E],/[7]/[E])



YES

Check the rollers. Replace them if they are worn out.



**[EB60] Paper left on the transport path due to multiple feeding**

Open the jam access cover. Is there any paper in front of the registration sensor?

↓ YES → Remove the paper.

NO

Is the registration sensor working?

(Perform the input check in the test mode: 03-[FAX]ON/[2]/[A])

↓ NO →

- 1) Check if the connector of the registration sensor is disconnected.
- 2) Check if either of the connectors CN318 on the LGC board is disconnected.
- 3) Check if the connector pins are disconnected and the harnesses are open circuited.
- 4) Check if the conductor pattern on the LGC board is short circuited or open circuited.
- 5) Replace the registration sensor.
- 6) Replace the LGC board.

↓ YES

Check the rollers. Replace them if they are worn out.

## 5.1.2 Paper misfeeding

### [E110] ADU misfeeding (paper not reaching the registration sensor)

Open the jam access cover. Is there any paper in front of the registration sensor?

↓ YES → Remove the paper.

NO

Is the registration sensor working?

(Perform the input check in the test mode: 03-[FAX]ON/[2]/[A])

- ↓
- NO →
- 1) Check if the connector of the registration sensor is disconnected.
  - 2) Check if the connector CN318 on the LGC board is disconnected.
  - 3) Check if the connector pins are disconnected or the harnesses are open circuited.
  - 4) Check if the conductor pattern on the LGC board is short circuited or open circuited.
  - 5) Replace the registration sensor.
  - 6) Replace the LGC board.

↓

YES

Is the ADU clutch working? (Perform the output check in the test mode: 03-222)

- ↓
- NO →
- 1) Check if the connector of the ADU clutch is disconnected.
  - 2) Check if the connector CN304 on the LGC board is disconnected.
  - 3) Check if the connector pins are disconnected or the harnesses are open circuited.
  - 4) Check if the conductor pattern on the LGC board is short circuited or open circuited.
  - 5) Replace the ADU clutch.
  - 6) Replace the LGC board.

↓

YES

Check the rollers in the ADU. Replace them if they are worn out.

**[E120] Bypass misfeeding (paper not reaching the registration sensor)**

Open the jam access cover. Is there any paper in front of the registration sensor?

↓ YES → Remove the paper.

NO

Is the registration sensor working?

(Perform the input check in the test mode: 03-[FAX]ON/[2]/[A])

- ↓
- NO →
- 1) Check if the connector of the registration sensor is disconnected.
  - 2) Check if the connector CN318 on the LGC board is disconnected.
  - 3) Check if the connector pins are disconnected and the harnesses are open circuited.
  - 4) Check if the conductor pattern on the LGC board is short circuited or open circuited.
  - 5) Replace the registration sensor.
  - 6) Replace the LGC board.

↓

YES

Is the bypass feed clutch working? (Perform the output check in the test mode: 03-204)

Is the bypass feed sensor working?

(Perform the input check in the test mode: 03-[FAX]ON/[4]/[F])

- ↓
- NO →
- 1) Check if the connector of the bypass feed clutch and bypass feed sensor are disconnected.
  - 2) Check if the connector CN304 on the LGC board is disconnected.
  - 3) Check if the connector pins are disconnected or the harnesses are open circuited.
  - 4) Check if the conductor pattern on the LGC board is short circuited or open circuited.
  - 5) Replace the bypass feed clutch and bypass feed sensor.
  - 6) Replace the LGC board.

↓

YES

Check the bypass transport, feed separation and pickup rollers. Replace them if they are worn out.

**[E130] Upper drawer misfeeding (paper not reaching the upper drawer feed sensor)**

Open the jam access cover. Is there any paper in front of the upper drawer feed sensor?

↓ YES → Remove the paper.

NO

Is the upper drawer feed sensor working?

(Perform the input check in the test mode: 03-[FAX]OFF/[6]/[E])

NO →

- 1) Check if the connector of the upper drawer feed sensor is disconnected.
- 2) Check if the connector CN318 on the LGC board is disconnected.
- 3) Check if the connector pins are disconnected or the harnesses are open circuited.
- 4) Check if the conductor pattern on the LGC board is short circuited or open circuited.
- 5) Replace the upper drawer feed sensor.
- 6) Replace the LGC board.

↓  
YES

Is the upper drawer feed clutch working? (Perform the output check: 03-201)

NO →

- 1) Check if the connector of the upper drawer feed clutch is disconnected.
- 2) Check if the connector CN305 on the LGC board is disconnected.
- 3) Check if the connector pins are disconnected or the harnesses are open circuited.
- 4) Check if the conductor pattern on the LGC board is short circuited or open circuited.
- 5) Replace the upper drawer feed clutch.
- 6) Replace the LGC board.

↓  
YES

Check the upper drawer feed roller, separation roller and pickup roller. Replace them if they are worn out.

**[E140] Lower drawer misfeeding (paper not reaching the lower drawer feed sensor)**

Open the side cover. Is there any paper in front of the lower drawer feed sensor?

↓ YES → Remove the paper.

NO

Is the lower drawer feed sensor working?

(Perform the input check in the test mode: 03-[FAX]OFF/[7]/[E])

- ↓
- NO →
- 1) Check if the connector of the lower drawer feed sensor is disconnected.
  - 2) Check if the connector CN318 on the LGC board is disconnected.
  - 3) Check if the connector pins are disconnected or the harnesses are open circuited.
  - 4) Check if the conductor pattern on the LGC board is short circuited or open circuited.
  - 5) Replace the lower drawer feed sensor.
  - 6) Replace the LGC board.

↓

YES

Is the lower drawer feed clutch working? (Perform the output check in the test mode: 03-202)

- ↓
- NO →
- 1) Check if the connector of the lower drawer feed clutch is disconnected.
  - 2) Check if the connector CN305 on the LGC board is disconnected.
  - 3) Check if the connector pins are disconnected or the harnesses are open circuited.
  - 4) Check if the conductor pattern on the LGC board is short circuited or open circuited.
  - 5) Replace the lower drawer feed clutch.
  - 6) Replace the LGC board.

↓

YES

Check the lower drawer feed roller, separation roller and pickup roller. Replace them if they are worn out.

**[E150] PFP upper drawer misfeeding (paper not reaching the PFP upper drawer feed sensor)**

Open the PFP side cover. Is there any paper in front of the PFP upper drawer feed sensor?

↓ YES → Remove the paper.

NO

Is the PFP upper drawer feed sensor working?

(Perform the input check in the test mode: 03-[FAX]OFF/[2]/[D])

- ↓
- NO →
- 1) Check if the connector of the PFP upper drawer feed sensor is disconnected.
  - 2) Check if either of the connectors CN241 or CN243 on the PFP board is disconnected.
  - 3) Check if the connector CN303 on the LGC board is disconnected.
  - 4) Check if the connector pins are disconnected or the harnesses are open circuited.
  - 5) Check if the conductor patterns on the PFP board and LGC board are short circuited or open circuited.
  - 6) Replace the PFP upper drawer feed sensor.
  - 7) Replace the PFP board.
  - 8) Replace the LGC board.

↓

YES

Is the PFP upper drawer feed clutch working?

(Perform the output check in the test mode: 03-226)

- ↓
- NO →
- 1) Check if the connector of the PFP upper drawer feed clutch is disconnected.
  - 2) Check if any of the connectors CN241, CN242 and CN247 on the PFP board is disconnected.
  - 3) Check if the connector CN303 on the LGC board is disconnected.
  - 4) Check if the connector pins are disconnected or the harnesses are open circuited.
  - 5) Check if the conductor patterns on the PFP board and LGC board are short circuited or open circuited.
  - 6) Replace the PFP upper drawer feed clutch.
  - 7) Replace the PFP board.
  - 8) Replace the LGC board.

↓

YES

Check the PFP upper drawer feed roller, separation roller and pickup roller. Replace them if they are worn out.

**[E160] PFP lower drawer misfeeding (paper not reaching the PFP lower drawer feed sensor)**

Open the PFP side cover. Is there any paper in front of the PFP lower drawer feed sensor?

↓ YES → Remove the paper.

NO

Is the PFP lower drawer feed sensor working?

(Perform the input check in the test mode: 03-[FAX]OFF/[4]/[D])

- ↓
- NO →
- 1) Check if the connector of the PFP lower drawer feed sensor is disconnected.
  - 2) Check if either of the connectors CN241 or CN243 on the PFP board is disconnected.
  - 3) Check if the connector CN303 on the LGC board is disconnected.
  - 4) Check if the connector pins are disconnected or the harnesses are open circuited.
  - 5) Check if the conductor patterns on the PFP board and LGC board are short circuited or open circuited.
  - 6) Replace the PFP lower drawer feed sensor.
  - 7) Replace the PFP board.
  - 8) Replace the LGC board.

↓

YES

Is the PFP lower drawer feed clutch working?

(Perform the output check in the test mode: 03-228)

- ↓
- NO →
- 1) Check if the connector of the PFP lower drawer feed clutch is disconnected.
  - 2) Check if any of the connectors CN241, CN242 and CN248 on the PFP board is disconnected.
  - 3) Check if the connector CN303 on the LGC board is disconnected.
  - 4) Check if the connector pins are disconnected or the harnesses are open circuited.
  - 5) Check if the conductor patterns on the PFP board and LGC board are short circuited or open circuited.
  - 6) Replace the PFP lower drawer feed clutch.
  - 7) Replace the PFP board.
  - 8) Replace the LGC board.

↓

YES

Check the PFP lower drawer feed roller, separation roller and pickup roller. Replace them if they are worn out.

**[E190] LCF misfeeding (paper not reaching the LCF feed sensor)**

Open the LCF side cover. Is there any paper in front of the LCF feed sensor?

↓ YES → Remove the paper.

NO

Is the LCF feed sensor working?

(Perform the input check in the test mode: 03-[FAX]OFF/[5]/[G])

- ↓
- NO →
- 1) Check if the connector of the LCF feed sensor is disconnected.
  - 2) Check if either of the connectors CN100 or CN104 on the LCF board is disconnected.
  - 3) Check if the connector CN303 on the LGC board is disconnected.
  - 4) Check if the connector pins are disconnected or the harnesses are open circuited.
  - 5) Check if the conductor patterns on the LCF board and LGC board are short circuited or open circuited.
  - 6) Replace the LCF feed sensor.
  - 7) Replace the LCF board.
  - 8) Replace the LGC board.

↓

YES

Is the LCF feed clutch working? (Perform the output check in the test mode: 03-209)

- ↓
- NO →
- 1) Check if the connector of the LCF feed clutch is disconnected.
  - 2) Check if any of the connectors CN100, CN101 and CN103 on the LCF board is disconnected.
  - 3) Check if the connector CN303 on the LGC board is disconnected.
  - 4) Check if the connector pins are disconnected or the harnesses are open circuited.
  - 5) Check if the conductor patterns on the LCF board and LGC board are short circuited or open circuited.
  - 6) Replace the LCF feed clutch.
  - 7) Replace the LCF board.
  - 8) Replace the LGC board.

↓

YES

Check the LCF feed roller, separation roller and pickup roller. Replace them if they are worn out.



### 5.1.3 Cover open jam

#### [E400] Jam access cover opened during printing

Is the jam access cover open?

↓ YES → Remove the paper if there is any, then close the cover.

NO

Is the voltage of 24V being supplied from the power supply unit?

(Perform the input check in the test mode: 03-[FAX] ON/[1]/[C])

- ↓ NO →
- 1) Check if the connector for 24V power supply is disconnected.
  - 2) Check if the connector CN301 on the LGC board is disconnected.
  - 3) Check if the connector pins are disconnected or the harnesses are open circuited.
  - 4) Check if the conductor pattern on the LGC board is short circuited or open circuited.
  - 5) Replace the LGC board.

↓ YES

Replace the LGC board.

#### [E410] Front cover opened during printing

Is the front cover open?

↓ YES → Close the cover.

NO

Is the voltage of 24V being supplied from the power supply unit?

(Perform the input check in the test mode: 03-[FAX] ON/[1]/[C])

- ↓ NO →
- 1) Check if the connector for 24V power supply is disconnected.
  - 2) Check if the connector CN301 on the LGC board is disconnected.
  - 3) Check if the connector pins are disconnected or the harnesses are open circuited.
  - 4) Check if the conductor pattern on the LGC board is short circuited or open circuited.
  - 5) Replace the LGC board.

↓ YES

Is the front cover opening/closing switch working?

(Perform the input check in the test mode: 03-[FAX]ON/[2]/[D])

- ↓ NO →
- 1) Check if the connector of the front cover opening/closing switch is disconnected.
  - 2) Check if the connector CN317 on the LGC board is disconnected.
  - 3) Check if the connector pins are disconnected or the harnesses are open circuited.
  - 4) Check if the conductor pattern on the LGC board is short circuited or open circuited.
  - 5) Replace the front cover opening/closing switch. Replace the LGC board.

↓ YES

Replace the LGC board.

#### [E420] PFP side cover opened during printing

Is the PFP side cover open?

↓ YES → Remove the paper if there is any, then close the cover.

NO

Is the PFP side cover opening/closing switch working?

(Perform the input check in the test mode: 03-[FAX]OFF/[2]/[F])

↓ NO →

- 1) Check if the connector of the PFP side cover opening/closing switch is disconnected.
- 2) Check if either of the connectors CN241 or CN243 on the PFP board is disconnected.
- 3) Check if the connector CN303 on the LGC board is disconnected.
- 4) Check if the connector pins are disconnected and the harnesses are open circuited.
- 5) Check if the conductor patterns on the PFP board and LGC board are short circuited or open circuited.
- 6) Replace the PFP side cover opening/closing switch.
- 7) Replace the PFP board.
- 8) Replace the LGC board.

↓ YES

- 1) Replace the PFP board.
- 2) Replace the LGC board.

#### [E430] ADU opened during printing

Is the ADU open?

↓ YES → Remove the paper if there is any, then close the ADU.

NO

Is the ADU opening/closing switch working?

(Perform the input check in the test mode: 03-[FAX]OFF/[1]/[F])

↓ NO →

- 1) Check if the connector of the ADU opening/closing switch is disconnected.
- 2) Check if either of the connectors CN211 or CN217 on the ADU board is disconnected.
- 3) Check if the connector CN304 on the LGC board is disconnected.
- 4) Check if the connector pins are disconnected or the harnesses are open circuited.
- 5) Check if the conductor patterns on the ADU board and LGC board are short circuited or open circuited.
- 6) Replace the ADU opening/closing switch.
- 7) Replace the ADU board.
- 8) Replace the LGC board.

↓ YES

- 1) Replace the ADU board.
- 2) Replace the LGC board.

#### [E440] Side cover opened during printing

Is the side cover open?

↓ YES → Remove the paper if there is any, then close the cover.

NO

Is the side door switch working? (Perform the input check in the test mode: 03-[FAX]ON/[2]/[G])

↓ NO →

- 1) Check if the connector of the side door switch is disconnected.
- 2) Check if the connector CN318 on the LGC board is disconnected.
- 3) Check if the connector pins are disconnected or the harnesses are open circuited.
- 4) Check if the conductor patterns on the LGC board are short circuited or open circuited.
- 5) Replace the side door switch.
- 6) Replace the LGC board.

↓ YES

Replace the LGC board.

#### [E450] LCF side cover opened during printing

Is the LCF side cover open?

↓ YES → Remove the paper if there is any, then close the cover.

NO

Is the LCF side cover opening/closing switch working? (Perform the input check in the test mode: 03-[FAX]OFF/[5]/[D])

↓ NO →

- 1) Check if the connector of the LCF side cover opening/closing switch is disconnected.
- 2) Check if either of the connectors CN100 or CN106 on the LCF board is disconnected.
- 3) Check if the connector CN303 on the LGC board is disconnected.
- 4) Check if the connector pins are disconnected or the harnesses are open circuited.
- 5) Check if the conductor patterns on the LCF board and LGC board are short circuited or open circuited.
- 6) Replace the LCF side cover opening/closing switch.
- 7) Replace the LCF board.
- 8) Replace the LGC board.

↓ YES

- 1) Replace the LCF board.
- 2) Replace the LGC board.

#### [E480] Bridge unit opened during printing

Is the bridge unit open?

↓ YES → Remove the paper if there is any, then close the unit.

NO

Is the bridge unit opening/closing switch working? (Perform the input check in the test mode: 03-[FAX]OFF/[8]/[H])

↓ NO →

- 1) Check if the connector of the bridge unit opening/closing switch is disconnected.
- 2) Check if the connector CN302 on the LGC board is disconnected.
- 3) Check if the connector pins are disconnected or the harnesses are open circuited.
- 4) Check if the conductor patterns on the LGC board is short circuited or open circuited.
- 5) Replace the bridge unit opening/closing switch.
- 6) Replace the LGC board.

↓ YES

Replace the LGC board.

#### [E490] JSP cover opened during printing

Is the JSP cover open?

↓ YES → Remove the paper if there is any, then close the cover.

NO

Is the JSP cover switch working? (Perform the input check in the test mode: 03-[FAX]OFF/[8]/[H])

↓ NO →

- 1) Check if the connector of the JSP cover opening/closing switch is disconnected.
- 2) Check if either of the connectors CN260 or CN261 on the JSP board is disconnected.
- 3) Check if the connector CN302 on the LGC board is disconnected.
- 4) Check if the connector pins are disconnected or the harnesses are open circuited.
- 5) Check if the conductor patterns on the JSP board and LGC board are short circuited or open circuited.
- 6) Replace the JSP cover switch.
- 7) Replace the JSP board.
- 8) Replace the LGC board.

↓ YES

- 1) Replace the JSP board.
- 2) Replace the LGC board.

**[E491] OCT cover opened during printing**

Is the OCT cover open?

↓ YES → Remove the paper if there is any, then close the cover.

NO

Is the OCT cover switch working? (Perform the input check in the test mode: 03-[FAX]OFF/[8]/[H])

↓ NO →

- 1) Check if the connector of the OCT cover switch is disconnected.
- 2) Check if either of the connectors CN260 or CN261 on the OCT board is disconnected.
- 3) Check if the connector CN302 on the OCT board is disconnected.
- 4) Check if the connector pins are disconnected or the harnesses are open circuited.
- 5) Check if the conductor patterns on the OCT board and LGC board are short circuited or open circuited.
- 6) Replace the OCT cover switch.
- 7) Replace the OCT board.
- 8) Replace the LGC board.

↓ YES

- 1) Replace the OCT board.
- 2) Replace the LGC board.

## 5.1.4 Transport jam (RADF)

### Note:

When performing the RADF related troubleshooting, be sure to perform “Automatic adjustment of RADF sensor and EEPROM initialization (05-356)” and “RADF original guide width adjustment (05-367/368)” consecutively at the Adjustment Mode whenever the RADF board, original length sensor, read sensor or reverse sensor has been replaced.

**[E711] Jam not reaching the original length sensor**

**[E712] Jam not reaching the registration sensor**

**[E713] Stop jam at the original length sensor**

Are the pickup roller, feed roller and separation roller stained or worn out?

↓ YES → Clean the rollers or replace them.

NO

Is the original excessively curled or folded?

↓ YES → Flatten and set it again.

NO

Are the original length sensor and registration sensor working?

(Perform the input check: 03-[FAX]ON/[8]/[E], [2]/[A])

- ↓ NO →
- 1) Check if the connectors of the original length sensor and registration sensor are disconnected.
  - 2) Check if the connector CN3 on the RADF board is disconnected.
  - 3) Check if the connector pins are disconnected or the harnesses are open circuited.
  - 4) Check if the conductor pattern on the RADF board is short circuited or open circuited.
  - 5) Replace the original length sensor and registration sensor.
  - 6) Replace the RADF board.

↓ YES

Replace the RADF board.

**[E714] Feed signal reception jam**

Is the empty sensor working? (Perform the input check: 03-[FAX]ON/[7]/[B])

- ↓ NO →
- 1) Check if the lever of empty sensor is working normally.
  - 2) Check if the connector of the empty sensor is disconnected.
  - 3) Check if the connector CN5 on the RADF board is disconnected.
  - 4) Check if the connector pins are disconnected or the harnesses are open circuited.
  - 5) Check if the conductor pattern on the RADF board is short circuited or open circuited.
  - 6) Replace the empty sensor.
  - 7) Replace the RADF board.

↓ YES

Replace the RADF board.

**[E721] Jam not reaching the read sensor**

Are the registration roller and read roller stained?

↓ YES → Clean the rollers.

NO

Is the read sensor working? (Perform the input check: 03-[FAX]ON/[7]/[G])

- ↓
- NO →
- 1) Check if the connector of the read sensor are disconnected.
  - 2) Check if the connector CN6 on the RADF board is disconnected.
  - 3) Check if the connector pins are disconnected or the harnesses are open circuited.
  - 4) Check if the conductor pattern on the RADF board is short circuited or open circuited.
  - 5) Replace the read sensor.
  - 6) Replace the RADF board.

↓

YES

Replace the RADF board.

**[E722] Jam not reaching the exit sensor (during scanning)**

**[E723] Jam not reaching the reverse sensor (during scanning)**

Is the read roller stained?

↓ YES → Clean the roller.

NO

Are the exit sensor and reverse sensor working?

(Perform the input check: 03-[FAX]ON/[7]/[E], [7]/[F])

- ↓
- NO →
- 1) Check if the connectors of the exit sensor and reverse sensor are disconnected.
  - 2) Check if the connector CN4 on the RADF board is disconnected.
  - 3) Check if the connector pins are disconnected or the harnesses are open circuited.
  - 4) Check if the conductor pattern on the RADF board is short circuited or open circuited.
  - 5) Replace the exit sensor and reverse sensor.
  - 6) Replace the RADF board.

↓

YES

Replace the RADF board.

#### [E724] Stop jam at the registration sensor

Is the registration roller stained?

↓ YES → Clean the roller.

NO

Is the registration sensor working? (Perform the input check: 03-[FAX]ON/[2]/[A])

- ↓
- NO →
- 1) Check if the connector of the registration sensor is disconnected.
  - 2) Check if the connector CN3 on the RADF board is disconnected.
  - 3) Check if the connector pins are disconnected or the harnesses are open circuited.
  - 4) Check if the conductor pattern on the RADF board is short circuited or open circuited.
  - 5) Replace the registration sensor.
  - 6) Replace the RADF board.

↓

YES

Replace the RADF board.

#### [E725] Stop jam at the read sensor

Is the read roller stained?

↓ YES → Clean the roller.

NO

Is the read sensor working? (Perform the input check: 03-[FAX]ON/[7]/[G])

- ↓
- NO →
- 1) Check if the connector of the read sensor is disconnected.
  - 2) Check if the connector CN6 on the RADF board is disconnected.
  - 3) Check if the connector pins are disconnected or the harnesses are open circuited.
  - 4) Check if the conductor pattern on the RADF board is short circuited or open circuited.
  - 5) Replace the read sensor.
  - 6) Replace the RADF board.

↓

YES

Replace the RADF board.

#### [E726] Transport/exit signal reception jam

- 1) If the original remains in the RADF, remove it.
- 2) If any paper remains in the equipment, remove it.
- 3) Turn the power OFF and then back ON. If the jam still occurs, lead the following procedure.
- 4) Check the connection between the RADF board and SLG board, and the connection between the RADF board and switching power supply.
  - Are the connection of the connectors and joint connectors normal?
  - Are the connector pins disconnected or are the harnesses open circuited?
- 5) Check if the 24V and 5V outputs of the switching power supply are normal.
- 6) Check if the conductor pattern on the RADF board is short circuited or open circuited.
- 7) Replace the RADF board.
- 8) Check if the conductor pattern on the SLG board is short circuited or open circuited.
- 9) Replace the SLG board.



**[E731] Stop jam at the exit sensor**

Is the exit roller stained?

↓ YES → Clean the roller.

NO

Is the exit sensor working? (Perform the input check: 03-[FAX]ON/[7]/[E])

- ↓
- NO →
- 1) Check if the connector of the exit sensor is disconnected.
  - 2) Check if the connector CN4 on the RADF board is disconnected.
  - 3) Check if the connector pins are disconnected or the harnesses are open circuited.
  - 4) Check if the conductor pattern on the RADF board is short circuited or open circuited.
  - 5) Replace the exit sensor.
  - 6) Replace the RADF board.

↓

YES

Replace the RADF board.

**[E741] Stop jam at the reverse sensor**

Are the read roller and reverse roller stained?

↓ YES → Clean the roller.

NO

Is the reverse sensor working? (Perform the input check: 03-[FAX]ON/[7]/[F])

- ↓
- NO →
- 1) Check if the connector of the reverse sensor is disconnected.
  - 2) Check if the connector CN4 on the RADF board is disconnected.
  - 3) Check if the connector pins are disconnected or the harnesses are open circuited.
  - 4) Check if the conductor pattern on the RADF board is short circuited or open circuited.
  - 5) Replace the reverse sensor.
  - 6) Replace the RADF board.

↓

YES

Replace the RADF board.

**[E742] Jam not reaching the reverse sensor (feeding in reverse)**

Is the reverse roller stained?

↓ YES → Clean the roller.

NO

Is the reverse sensor working? (Perform the input check: 03-[FAX]ON/[7]/[F])

- ↓
- NO →
- 1) Check if the connector of the reverse sensor is disconnected.
  - 2) Check if the connector CN4 on the RADF board is disconnected.
  - 3) Check if the connector pins are disconnected or the harnesses are open circuited.
  - 4) Check if the conductor pattern on the RADF board is short circuited or open circuited.
  - 5) Replace the reverse sensor.
  - 6) Replace the RADF board.

↓

YES

Replace the RADF board.

**[E743] Jam not reaching the exit sensor (feeding in reverse)**

Are the reverse roller and read roller stained?

↓ YES → Clean the roller.

NO

Is the exit sensor working? (Perform the input check: 03-[FAX]ON/[7]/[E])

- ↓
- NO →
- 1) Check if the connector of the exit sensor is disconnected.
  - 2) Check if the connector CN4 on the RADF board is disconnected.
  - 3) Check if the connector pins are disconnected or the harnesses are open circuited.
  - 4) Check if the conductor pattern on the RADF board is short circuited or open circuited.
  - 5) Replace the exit sensor.
  - 6) Replace the RADF board.

↓

YES

Replace the RADF board.

**[E860] Jam access cover open**

Is the jam access cover opened?

↓ YES → Remove the original, if any, and close the jam access cover.

NO

Is the jam access cover switch working? (Perform the input check: 03-[FAX]ON/[7]/[C])

- ↓
- NO →
- 1) Check if the connector of the jam access cover switch is disconnected.
  - 2) Check if the connector CN8 on the RADF board is disconnected.
  - 3) Check if the connector pins are disconnected or the harnesses are open circuited.
  - 4) Check if the conductor pattern on the RADF board is short circuited or open circuited.
  - 5) Replace the jam access cover switch.
  - 6) Replace the RADF board.

↓

YES

Replace the RADF board.

**[E870] RADF open jam**

Is the RADF opened?

↓ YES → Remove the original, if any, and close the RADF.

NO

Is the RADF opening/closing sensor adjusted within the specified range?

↓ NO → Adjust the RADF opening/closing sensor.

YES

Is the RADF opening/closing sensor working? (Perform the input check: 03-[FAX]ON/[7]/[D])

↓ NO →

- 1) Check if the connector of the RADF opening/closing sensor is disconnected.
- 2) Check if the connector CN6 on the RADF board is disconnected.
- 3) Check if the connector pins are disconnected or the harnesses are open circuited.
- 4) Check if the conductor pattern on the RADF board is short circuited or open circuited.
- 5) Replace the RADF opening/closing sensor.
- 6) Replace the RADF board.

↓ YES

Replace the RADF board.

## 5.1.5 Finisher jam

### [ 1 ] Jam in bridge unit

[E910] Paper not reaching the bridge unit transport sensor-1

[E920] Paper stopping at the bridge unit transport sensor-1

[E930] Paper not reaching the bridge unit transport sensor-2

[E940] Paper stopping at the bridge unit transport sensor-2

Is there any paper remaining inside the bridge unit?

↓ YES → Remove the paper.

NO

Are the bridge unit transport sensors-1 and -2 working?

(Perform the input check: 03-[FAX]ON/[3]/[H], /[3]/[E])

↓ NO →

- 1) Check if the connectors of the bridge unit transport sensors-1 and -2 are disconnected.
- 2) Check if the connector J512 of the bridge unit is disconnected.
- 3) Check if the connector CN302 on the LGC board is disconnected.
- 4) Check if the connector pins are disconnected or the harnesses are open circuited.
- 5) Check if the conductor pattern on the LGC board is short circuited or open circuited.
- 6) Replace the bridge unit transport sensors-1 and -2.
- 7) Replace the LGC board.

↓ YES

Is the bridge unit gate solenoid working? (Perform the output check: 03-232)

↓ NO →

- 1) Check if the connector J512 of the bridge unit is disconnected.
- 2) Check if the connector CN302 on the LGC board is disconnected.
- 3) Check if the connector pins are disconnected or the harnesses are open circuited.
- 4) Replace the bridge unit gate solenoid.
- 5) Replace the LGC board.

↓ YES

Does the transport roller of the bridge unit work when the main motor is rotated?

(Perform the output check: 03-101/151)

↓ NO → Check the drive system of the equipment and bridge unit.

YES

Check if the rollers in the bridge unit are worn out.

## [ 2 ] Paper jam in finisher section

### [EA10] Paper transport delay jam

#### MJ-1022

Is there any paper remaining on the transport path in the finisher or equipment?

↓ YES → Remove the paper.

NO

Is the connector J10 on the finisher controller PC board disconnected?

Is the harness connecting the finisher controller PC board and inlet sensor (S2) open circuited?

↓ YES → Connect the connector securely. Replace the harness.

NO

Is the inlet sensor working normally? (Check the movement of the actuator.)

↓ NO → 1) Connect the connector of the inlet sensor securely.  
2) Attach the actuator securely if its shaft is out of place.  
3) Replace the inlet sensor.

↓ YES

Replace the finisher controller PC board.

#### MJ-1023/1024

Is there any paper remaining on the transport path in the finisher or equipment?

↓ YES → Remove the paper.

NO

Is the connector J708 on the finisher controller PC board disconnected?

Is the harness connecting the finisher controller PC board and inlet sensor (PI33) open circuited?

↓ YES → Connect the connector securely. Replace the harness.

NO

Is the inlet sensor working properly? (Check the movement of the actuator.)

↓ NO → 1) Connect the connector of the inlet sensor securely.  
2) Attach the actuator securely if its shaft is out of place.  
3) Replace the inlet sensor.

↓ YES

Replace the finisher controller PC board.

MJ-1101

Is there any paper remaining on the transport path in the finisher or equipment?

↓ →YES Remove the paper.

NO

Is there a disconnection of the connector, incorrect installation or breakage of the entrance sensor (S1)?

I →YES • Reconnect the connector securely.  
I • Reinstall the sensor correctly.  
↓ • Replace the sensor.

NO

Is the gap between the flapper and entrance roller shaft other than  $0.60 \pm 0.20$ mm when the gate solenoid (SOL2) is pulled?

↓ →YES Adjust the gap.

NO

Is the harness between the entrance motor (M1) and the finisher control PC board (CN7) disconnected or open circuited?

Is the harness between the gate solenoid (SOL2) and the finisher control PC board (CN22) disconnected or open circuited?

I →YES • Reconnect the connector securely.  
↓ • Replace the harness.

NO

Replace the finisher controller PC board.

## [EA20] Paper transport stop jam

### MJ-1022

Is there any paper remaining on the transport path in the finisher or equipment?

↓ YES → Remove the paper.

NO

Is the connector J10 on the finisher controller PC board disconnected?

Is the harness connecting the finisher controller PC board and inlet sensor (S2) open circuited?

↓ YES → Connect the connector securely. Replace the harness.

NO

Is the inlet sensor working properly? (Check the movement of the actuator.)

↓ NO → 1) Connect the connector of the inlet sensor securely.  
2) Attach the actuator securely if its shaft is out of place.  
3) Replace the inlet sensor.

YES

Replace the finisher controller PC board.

### MJ-1023/1024

Is there any paper remaining on the transport path in the finisher or equipment?

↓ YES → Remove the paper.

NO

Is any of the connectors (J707, J708 and J722B) on the finisher controller PC board disconnected?

Is the harness between the finisher controller PC board and each sensor (the inlet sensor [PI33], the transport path sensor [PI34], the processing tray sensor [PI38]) open circuited?

↓ YES → Connect the connectors securely. Replace the harnesses.

NO

Is each of the sensors (the inlet sensor, the transport path sensor and processing tray sensor) working properly? (Check the movement of the actuator.)

↓ NO → 1) Connect the connectors of the sensors securely.  
2) Attach the actuators securely if their shafts are out of place.  
3) Replace the sensors.

YES

Replace the finisher controller PC board.

### MJ-1101

Is there any paper remaining on the transport path in the finisher or equipment?

↓ →YES Remove the paper.

NO

Is there a disconnection of the connector, incorrect installation or breakage of the transport sensor (S2)?

↓ →YES • Connect the connector securely.  
• Reinstall the sensor correctly.  
↓ • Replace the sensor.

NO

Replace the finisher control PC board.

## [EA21] Paper size error jam

MJ-1101

Is there any paper remaining on the transport path in the finisher or equipment?

↓ →YES Remove the paper.

NO

Is the paper size used shorter than the size specified in the specifications?

↓ →YES Use the paper size specified in the specifications.

NO

Is there a disconnection of the connector, incorrect installation or breakage of the entrance sensor (S1)?

Is there a disconnection of the connector, incorrect installation or breakage of the transport sensor (S2)?

I →YES • Connect the connector securely.  
I • Reinstall the sensor correctly.  
↓ • Replace the sensor.

NO

Is the harness between the entrance motor (M1) and the finisher control PC board (CN7) disconnected or open circuited?

Is the harness between the transport sensor (S2) and the finisher control PC board (CN22) disconnected or open circuited?

I →YES • Reconnect the connector securely.  
↓ • Replace the harness.

NO

Replace the finisher control PC board.



## [EA30] Power-ON jam

### MJ-1022

Is there any paper remaining on the transport path in the finisher?

↓ YES → Remove the paper.

NO

Is the connector J10 on the finisher controller PC board disconnected?

Is the harness connecting the finisher controller PC board and inlet sensor (S2) open circuited?

↓ YES → Connect the connector securely. Replace the harness.

NO

Is the inlet sensor working properly? (Check the movement of the actuator.)

| NO → 1) Connect the connector of the inlet sensor securely.  
| 2) Attach the actuator securely if its shaft is out of place.  
| 3) Replace the inlet sensor.

↓

YES

Replace the finisher controller PC board.

### MJ-1023/1024

Is there any paper remaining on the transport path in the finisher?

↓ YES → Remove the paper.

NO

Is any of the connectors J707, J708 and J722B on the finisher controller PC board disconnected?

Is the harness between the finisher controller PC board and each sensor (the inlet sensor [PI33], the transport path sensor [PI34], the processing tray sensor [PI38], open circuited?

↓ YES → Connect the connectors securely. Replace the harnesses.

NO

Is each of the sensors (the inlet sensor, the transport path sensor and the processing tray sensor) working properly? (Check the movement of the actuator.)

| NO → 1) Connect the connectors of the sensors securely.  
| 2) Attach the actuators securely if their shafts are out of place.  
| 3) Replace the sensors.

↓

YES

Replace the finisher controller PC board.

### [EA31] Transport path paper remaining jam

MJ-1101

Is there any paper remaining on the transport path in the finisher or equipment?

↓ →YES Remove the paper.

NO

Is there a disconnection of the connector, incorrect installation or breakage of the transport sensor (S2)?

I →YES • Connect the connector securely.  
I • Reinstall the sensor correctly.  
↓ • Replace the sensor.

NO

Is the harness between the transport sensor (S2) and the finisher control PC board (CN22) disconnected or open circuited?

I →YES • Reconnect the connector securely.  
↓ • Replace the harness.

NO

Replace the finisher control PC board.

### [EA32] Exit paper remaining jam

MJ-1101

Is there any paper remaining on the transport path in the finisher or equipment?

↓ →YES Remove the paper.

NO

Is there a disconnection of the connector, incorrect installation or breakage of the finishing tray paper detection sensor (S12)?

I →YES • Connect the connector securely.  
I • Reinstall the sensor correctly.  
↓ • Replace the sensor.

NO

Is the harness between the finishing tray paper detection sensor (S12) and the finisher control PC board (CN11) disconnected or open circuited?

I →YES • Reconnect the connector securely.  
↓ • Replace the harness.

NO

Replace the finisher control PC board.

**[EA40] Finisher front door open jam**

MJ-1022

Is there any paper remaining on the transport path in the finisher or equipment?

↓ YES → Remove the paper.

NO

Is the finisher connected with the equipment?

↓ NO → Connect the finisher with the equipment.

YES

Is the connector J11 on the finisher controller PC board disconnected?

Is the harness connecting the finisher controller PC board and joint sensor (S4) open circuited?

↓ YES → Connect the connector securely. Replace the harness.

NO

Is the joint sensor working properly?

↓ NO → 1) Connect the connector of the joint sensor securely.  
2) Replace the joint sensor.

↓

YES

Replace the finisher controller PC board.

MJ-1023/1024

Is there any paper remaining on the transport path in the finisher or equipment?

↓ YES → Remove the paper.

NO

Is either of the covers upper and front of the finisher closed?

↓ NO → Close the cover.

YES

Is any connectors J707 and J708 on the finisher controller PC board disconnected?

Is the harness connecting the finisher controller PC board and upper and front cover opening sensors (PI31 and PI32) open circuited?

↓ YES → Connect the connector securely. Replace the harness.

NO

Is the upper/front cover opening sensor working properly?

↓ NO → 1) Connect the connector of the upper/front cover opening sensor securely.  
2) Replace the upper/front cover opening sensor.

↓

YES

Is the connector J719 on the finisher controller PC board disconnected?

Is the harness connecting the finisher controller PC board and front cover switch (MS31) open circuited?

↓ YES → Connect the connector securely. Replace the harness.

NO

Is the front cover switch working properly?

↓ NO → 1) Connect the connector of the front cover opening switch securely.  
2) Replace the front cover switch.

↓

YES

Is the connector J5 on the punch controller PC board disconnected?

Is the harness connecting the punch controller PC board and upper door switch (MSW61) open circuited?

Is the harness connecting the punch controller PC board and front door switch (MSW62) open circuited?

↓ YES → Connect the connector securely. Replace the harness.

↓

NO

Are the upper and front door switches working properly?

↓ NO → 1) Connect the connector of the front cover opening switch securely.  
2) Replace the upper/front door switches.

↓

YES

Replace the finisher controller PC board.

MJ-1101

Is the front cover or stationary tray cover opened?

- I →YES • Close the front cover.
- ↓ • Close the stationary tray cover.

NO

Is there any breakage of the front cover hook which switches the front cover switch (SW1) to ON?

- ↓ →YES Replace the handle cover.

NO

Is there a disconnection of the connector, incorrect installation or breakage of the front cover switch (SW1)?

Is there an incorrect installation or breakage of the stationary tray cover opening/closing switch (SW2)?

- I →YES • Connect the connector securely.
- I • Reinstall the sensor correctly.
- ↓ • Replace the sensor.

NO

Is the harness between the front cover switch (SW1) / stationary tray opening/closing switch (SW2) and the finisher control PC board (CN16) disconnected or open circuited?

- I →YES • Reconnect the connector securely.
- ↓ • Replace the harness.

NO

Replace the finisher control PC board.

## [EA50] Stapling jam

### MJ-1022

Is there any paper remaining on the transport path in the finisher or equipment or on the stapling tray?

↓ YES → Remove the paper.

NO

Is the jam cleared by taking off the staple cartridge from the finisher and removing the staple sheet slid from the staple case?

↓ YES → End.

NO

Is the connector J8 on the finisher controller PC board disconnected?

Is the harness connecting the finisher controller PC board and stapling home position sensor (S17) open circuited?

↓ YES → Connect the connector securely. Replace the harness.

NO

Is the stapling home position sensor working properly?

↓ NO → 1) Connect the connector of the stapling home position sensor securely.  
2) Replace the stapling home position sensor.

↓

YES

Replace the finisher controller PC board.

### MJ-1023/1024

Is there any paper remaining on the transport path in the finisher or equipment or on the stapling tray?

↓ YES → Remove the paper.

NO

Is the jam cleared by taking off the staple cartridge from the finisher and removing the staple sheet slid from the staple case?

↓ YES → End.

NO

Is the connector J721B on the finisher controller PC board disconnected?

Is the harness connecting the finisher controller PC board and staple home position sensor (PI40) open circuited?

↓ YES → Connect the connector securely. Replace the harness.

NO

Is the staple home position sensor working properly?

↓ NO → 1) Connect the connector of the staple home position sensor securely.  
2) Replace the staple home position sensor.

↓

YES

Replace the finisher controller PC board.

## MJ-1101

Is there any paper remaining on the transport path in the finisher or equipment, or on the finishing tray?

↓ →YES Remove the paper.

NO

Is the jam cleared by taking off the staple cartridge from the finisher and removing the staple sheet slid from the staple case?

↓ →YES End.

NO

Is there any mechanical problem when the actuator of the stapler interference sensor (S11) is moved?

↓ →YES Reinsert the clip which fixes the actuator from the side of it.

NO

Is the harness between the stapler and the finisher control PC board (CN2) disconnected or open circuited?

I →YES • Reconnect the connector securely.

↓ • Replace the harness.

NO

Are the harnesses in the stapler disconnected or open circuited?

I →YES • Reconnect the connector securely.

↓ • Replace the harness.

NO

Replace the finisher control PC board.

## [EA60] Early arrival jam

### MJ-1022

Is there any paper remaining on the transport path in the finisher or equipment?

↓ YES → Remove the paper.

NO

Is the connector J10 on the finisher controller PC board disconnected?

Is the harness connecting the finisher controller PC board and inlet sensor (S2) open circuited?

↓ YES → Connect the connector securely. Replace the harness.

NO

Is the inlet sensor working properly? (Check the movement of the actuator.)

↓ NO → 1) Connect the connector of the inlet sensor securely.  
2) Attach the actuator securely if its shaft is out of place.  
3) Replace the inlet sensor.

↓  
YES

Replace the finisher controller PC board.

### MJ-1023/1024

Is there any paper remaining on the transport path in the finisher or equipment?

↓ YES → Remove the paper.

NO

Is the connector J708 on the finisher controller PC board disconnected?

Is the harness connecting the finisher controller PC board and inlet sensor (PI33) open circuited?

↓ YES → Connect the connector securely. Replace the harness.

NO

Is the inlet sensor working properly? (Check the movement of the actuator.)

↓ NO → 1) Connect the connector of the inlet sensor securely.  
2) Attach the actuator securely if its shaft is out of place.  
3) Replace the inlet sensor.

↓  
YES

Replace the finisher controller PC board.

### MJ-1101

Is there any paper remaining on the transport path in the finisher or equipment?

↓ →YES Remove the paper.

NO

Is there a disconnection of the connector, incorrect installation or breakage of the entrance sensor (S1)?

↓ →YES • Connect the connector securely.  
• Reinstall the sensor correctly.  
↓ • Replace the sensor.

NO

Is the harness between the entrance sensor (S1) and the finisher control PC board (CN7) disconnected or open circuited?

↓ →YES • Reconnect the connector securely.  
↓ • Replace the harness.

NO

Replace the finisher control PC board.



## [EA70] Stack delivery jam

MJ-1022

Is there any paper remaining on the transport path in the finisher or equipment?

↓ YES → Remove the paper.

NO

Is the connector J9 on the finisher controller PC board disconnected?

Is the harness connecting the finisher controller PC board and stack delivery lever home position sensor (S8) open circuited?

↓ YES → Connect the connector securely. Replace the harness.

NO

Is the stack delivery lever home position sensor working properly?

| NO → 1) Connect the connector of the stack delivery lever home position sensor  
| securely.

| 2) Replace the stack delivery lever home position sensor.

↓

YES

Replace the finisher controller PC board.

## [EA70] Stack exit belt home position error

MJ-1101

Is there a disconnection of the connector, incorrect installation or breakage of the stack exit belt home position sensor (S9)?

| →YES • Connect the connector securely.

| • Reinstall the sensor correctly.

↓ • Replace the sensor.

NO

Is the harness between the stack exit belt home position sensor (S9) and the finisher control PC board (CN11) disconnected or open circuited?

| →YES • Reconnect the connector securely.

↓ • Replace the harness.

NO

Is the harness between the stack transport motor (M5) and the finisher control PC board (CN10) disconnected or open circuited?

| →YES • Reconnect the connector securely.

↓ • Replace the harness.

NO

Replace the finisher control PC board.

**[EAF0] Stack return jam**

MJ-1022

Is there any paper remaining on the transport path in the finisher or equipment?

↓ YES → Remove the paper.

NO

Is the connector J10 on the finisher controller PC board disconnected?

Is the harness connecting the finisher controller PC board and returning roller home position sensor (S3) open circuited?

↓ YES → Connect the connector securely. Replace the harness.

NO

Is the returning roller home position sensor working properly?

| NO → 1) Connect the connector of the returning roller home position sensor  
| securely.

| 2) Replace the returning roller home position sensor.

↓

YES

Replace the finisher controller PC board.

### [ 3 ] Paper jam in saddle stitcher section

#### [EA80] Stapling jam

MJ-1024

Is there any paper remaining on the transport path or the stapling tray in the finisher, saddle stitcher section or equipment?

↓ YES → Remove the paper.

NO

Is the jam cleared by taking off the staple cartridge from the finisher and removing the staples stuck in the stapling unit?

↓ YES → End.

NO

Is the connector J8 on the saddle stitcher controller PC board disconnected?

Is the harness connecting the saddle stitcher controller PC board and stitcher home position switch (rear: SW5, front: SW7) open circuited?

↓ YES → Connect the connector securely. Replace the harness.

NO

Are the stitcher home position switches working properly?

↓ NO → 1) Connect the connectors of the stitcher home position switches securely.  
2) Replace the stitcher home position switches.

↓

YES

Replace the saddle stitcher controller PC board.

#### [EA90] Door open jam

MJ-1024

Is there any paper remaining on the transport path in the finisher, saddle stitcher section or equipment?

↓ YES → Remove the paper.

NO

Is the saddle stitcher door closed?

↓ NO → Close the door.

YES

Is either of the connectors J10 or J11 on saddle stitcher controller PC board disconnected?

Are the harnesses between the saddle stitcher controller PC board and cover opening sensors (delivery cover sensor [PI3], inlet cover sensor [PI9]) open circuited?

↓ YES → Connect the connector securely. Replace the harness.

NO

Is each of the sensors (delivery cover sensor, inlet cover sensor) working properly?

↓ NO → 1) Connect the connectors of the each sensor securely.  
2) Replace the sensors.

↓

YES

Replace the finisher controller PC board.

## [EAA0] Power-ON jam

MJ-1024

Is there any paper remaining on the transport path in the finisher or saddle stitcher section?

↓ YES → Remove the paper.

NO

Is any of the connectors J9, J10 and J13 on the saddle stitcher controller PC board disconnected?

Is the harness between the saddle stitcher controller PC board and each sensor (No.1 paper sensor [PI18], No.2 paper sensor [PI19], No.3 paper sensor [PI20], vertical path paper sensor [PI17] and delivery sensor[PI11]) open circuited?

↓ YES → Connect the connectors securely. Replace the harnesses.

NO

Is each of the sensors (No.1 paper sensor, No.2 paper sensor, No.3 paper sensor, vertical path paper sensor and delivery sensor) working properly?

(Check the movement of the actuator.)

↓ NO → 1) Connect the connectors of the sensors securely.  
2) Attach the actuators securely if their shafts are out of place.  
3) Replace the sensors.

↓ YES

Replace the saddle stitcher controller PC board.

## [EAB0] Paper transport stop jam

MJ-1024

Is there any paper remaining on the transport path in the finisher, saddle stitcher section or equipment?

↓ YES → Remove the paper.

NO

Is the connector J708 on finisher controller PC board disconnected?

Is the harness between the finisher controller PC board and inlet sensor [PI33] open circuited?

Is either of the connectors J9 or J10 on the saddle stitcher controller PC board disconnected?

Is the harness between the saddle stitcher controller PC board and each sensor (No.1 paper sensor [PI18], No.2 paper sensor [PI19], No.3 paper sensor [PI20] and the delivery sensor [PI11]) open circuited?

↓ YES → Connect the connectors securely. Replace the harnesses.

NO

Is each of the sensors (the inlet sensor, No.1 paper sensor, No.2 paper sensor, No.3 paper sensor and delivery sensor) working properly?

(Check the movement of the actuator.)

↓ NO → 1) Connect the connectors of the sensors securely.  
2) Attach the actuators securely if their shafts are out of place.  
3) Replace the sensors.

↓ YES

Replace the saddle stitcher controller PC board.

## [EAC0] Transport delay jam

MJ-1024

Is there any paper remaining on the transport path in the finisher, saddle stitcher section or equipment?

↓ YES → Remove the paper.

NO

Is the connector J708 on the finisher controller PC board disconnected?

Is the harness connecting the finisher controller PC board and inlet sensor (PI33) open circuited?

↓ YES → Connect the connector securely. Replace the harness.

NO

Is the inlet sensor working properly? (Check the movement of the actuator.)

| NO → 1) Connect the connector of the sensor securely.  
| 2) Attach the actuator securely if its shaft is out of place.  
| 3) Replace the sensor.

↓

YES

Replace the finisher controller PC board.

## [ 4 ] Paper jam in puncher unit

### [E9F0] Punching jam

MJ-1023/1024 (When MJ-6004 is installed)

Is there any paper remaining on the transport path in the finisher or equipment?

↓ YES → Remove the paper.

NO

Is the connector J605A on the punch controller PC board disconnected?

Is the harness connecting the punch controller PC board and punch home position sensor (PI63) open circuited?

↓ YES → Connect the connector securely. Replace the harness.

NO

Is the punch home position sensor working properly?

↓ NO → 1) Connect the connector of the punch home position sensor securely.  
2) Replace the punch home position sensor.

↓

YES

Replace the punch controller PC board.

MJ-1101 (When MJ-6101 is installed)

Is there any paper remaining on the transport path?

↓ →YES Remove the paper.

NO

Rotate the punch motor (M3). Does it rotate smoothly?

↓ →NO Fix the mechanism.

YES

Are the punch home position sensor (S4) and its wiring correct?

↓ →NO Replace the sensor. Correct the wiring.

YES

Is the wiring between the hole punch control PC board (HP) and punch motor (M3) correct?

↓ →NO Correct the wiring.

YES

1) Replace the punch motor (M3).

2) Replace the hole punch control PC board (HP).

## [ 5 ] Other paper jam

### [EAD0] Print end command time-out jam

Is the main motor rotating normally?

↓

NO

- 1) Replace the SYS board.
- 2) Replace the LGC board.

### [EAE0] Receiving time-out jam

Is the finisher working?

↓ YES → Replace the finisher controller PC board.

NO

- 1) Check if the voltage (24V) is being supplied to the finisher.
- 2) Check the connection of the LGC board and IPC board.
- 3) Check if the harness connecting the IPC board and finisher I/F connector of the equipment side is open circuited.
- 4) Check if the harness connecting the I/F connector of the finisher side and finisher controller PC board is open circuited.
- 5) Replace the finisher controller PC board.

### [EB30] Ready time time-out jam

Is there paper in the equipment?

↓ NO → Replace the LGC board.

YES

Are the IPC board and LGC board properly connected to each other?

↓ NO → Connect them properly.

YES

Is the harness securely connected to the IPC board?

↓ NO → Connect the harness properly.

YES

Is any of the connector pins of the harness connecting the equipment and finisher disconnected or any of those harnesses open circuited?

↓ NO → Connect the pin or replace the harness.

YES

- 1) Replace the IPC board.
- 2) Replace the LGC board.
- 3) Replace the finisher controller PC board.

### **[ED10] Skew adjustment motor (M1) home position detection abnormality**

MJ-1101 (When MJ-6101 is installed)

Is there any paper remaining on the transport path?

↓ →YES Remove the paper.

NO

Rotate the skew adjustment motor (M1). Does it rotate smoothly?

↓ →NO Fix the mechanism.

YES

Are the skew home position sensor (S2) and its wiring correct?

↓ →NO Replace the sensor. Correct the wiring.

YES

Is the wiring between the hole punch control PC board (HP) and skew adjustment motor (M1) correct?

↓ →NO Correct the wiring.

YES

- 1) Replace the skew adjustment motor (M1).
- 2) Replace the hole punch control PC board (HP).

### **[ED11] Sideways adjustment motor (M2) home position detection error**

MJ-1101 (When MJ-6101 is installed)

Is there any paper remaining on the transport path?

↓ →YES Remove the paper.

NO

Rotate the sideways adjustment motor (M2). Does it rotate smoothly?

↓ →NO Fix the mechanism.

YES

Are the sideways deviation home position sensor (S3) and its wiring correct?

↓ →NO Replace the sensor. Correct the wiring.

YES

Is the wiring between the hole punch control PC board (HP) and punch sideways adjustment motor (M2) correct?

↓ →NO Correct the wiring.

YES

- 1) Replace the sideways adjustment motor (M2).
- 2) Replace the hole punch control PC board (HP).



## [ED12] Shutter home position error

MJ-1101

Is there any mechanical problem when the shutter is opened/closed?

↓ →YES Fix the mechanism.

NO

Is there a disconnection of the connector, incorrect installation or breakage of the shutter opening/closing sensor (S4)?

I →YES • Connect the connector securely.  
I • Reinstall the sensor correctly.  
↓ • Replace the sensor.

NO

Is the harness between the shutter opening/closing sensor (S4) and the finisher control PC board (CN13) disconnected or open circuited?

I →YES • Reconnect the connector securely.  
↓ • Replace the harness.

NO

Is the harness between the shutter clutch (CLT1) and the finisher control PC board (CN5) disconnected or open circuited?

I →YES • Reconnect the connector securely.  
↓ • Replace the harness.

NO

Replace the finisher control PC board.

## [ED13] Front alignment plate home position error

MJ-1101

Is there any mechanical problem when the front alignment plate is moved?

↓ →YES Fix the mechanism.

NO

Is there a disconnection of the connector, incorrect installation or breakage of the front alignment plate home position sensor (S7)?

I →YES • Connect the connector securely.  
I • Reinstall the sensor correctly.  
↓ • Replace the sensor.

NO

Is the harness between the front alignment plate home position sensor (S7) and the finisher control PC board (CN11) disconnected or open circuited?

I →YES • Reconnect the connector securely.  
↓ • Replace the harness.

NO

Is the harness between the front alignment motor (M9) and the finisher control PC board (CN10) disconnected or open circuited?

I →YES • Reconnect the connector securely.  
↓ • Replace the harness.

NO

Replace the finisher control PC board.

#### [ED14] Rear alignment plate home position error

MJ-1101

Is there any mechanical problem when the rear alignment plate is moved?

↓ →YES Fix the mechanism.

NO

Is there a disconnection of the connector, incorrect installation or breakage of the rear alignment plate home position sensor (S8)?

I →YES • Connect the connector securely.  
I • Reinstall the sensor correctly.  
↓ • Replace the sensor.

NO

Is the harness between the rear alignment plate home position sensor (S8) and the finisher control PC board (CN11) disconnected or open circuited?

I →YES • Reconnect the connector securely.  
↓ • Replace the harness.

NO

Is the harness between the rear alignment motor (M10) and the finisher control PC board (CN10) disconnected or open circuited?

I →YES • Reconnect the connector securely.  
↓ • Replace the harness.

NO

Replace the finisher control PC board.

#### [ED15] Paddle home position error

MJ-1101

Is there any mechanical problem when the paddle is rotated?

↓ →YES Fix the mechanism.

NO

Is there a disconnection of the connector, incorrect installation or breakage of the paddle home position sensor (S3)?

I →YES • Connect the connector securely.  
I • Reinstall the sensor correctly.  
↓ • Replace the sensor.

NO

Is the harness between the paddle home position sensor (S3) and the finisher control PC board (CN5) disconnected or open circuited?

I →YES • Reconnect the connector securely.  
↓ • Replace the harness.

NO

Is the harness between the paddle motor (M8) and the finisher control PC board (CN6) disconnected or open circuited?

I →YES • Reconnect the connector securely.  
↓ • Replace the harness.

NO

Replace the finisher control PC board.

**[ED16] Buffer tray home position error**

MJ-1101

Is there any mechanical problem when the buffer tray guide is opened/closed?

↓ →YES Fix the mechanism.

NO

Is there a disconnection of the connector, incorrect installation or breakage of the buffer tray home position sensor (S5)?

I →YES • Connect the connector securely.  
I • Reinstall the sensor correctly.  
↓ • Replace the sensor.

NO

Is the harness between the buffer tray home position sensor (S5) and the finisher control PC board (CN18) disconnected or open circuited?

I →YES • Reconnect the connector securely.  
↓ • Replace the harness.

NO

Is the harness between the buffer tray guide motor (M3) and the finisher control PC board (CN18) disconnected or open circuited?

I →YES • Reconnect the connector securely.  
↓ • Replace the harness.

NO

Replace the finisher control PC board.

## 5.1.6 Drive system related service call

### [C010] Main motor is abnormal

Is the main motor working? (Perform the output check in the test mode: 03-101/151)

- NO →
- 1) Check if the connector CN1 of the main motor is disconnected.
  - 2) Check if the connector CN318 on the LGC board is disconnected.
  - 3) Check if the connector pins are disconnected or the harnesses are open circuited.
  - 4) Check if the conductor patterns on the main motor board and LGC board are short circuited or open circuited.
  - 5) Replace the main motor.
  - 6) Replace the LGC board.



YES

Is the LED on the main motor board lit without flickering?

- NO →
- 1) Check if the connector pins are disconnected or the harnesses are open circuited.
  - 2) Check if the conductor patterns on the main motor board and LGC board are short circuited or open circuited.
  - 3) Replace the main motor.
  - 4) Replace the LGC board.



YES

- 1) Check if the PLL lock signal CN318-A1 output from the LGC board is always level "L"?
- 2) Check if the voltage supplied to the CPU input terminal IC24-14 is always "L"?
- 3) Replace the LGC board.

## 5.1.7 Paper feeding system related service call

### [C040] PFP motor is abnormal (paper can be fed from the drawers other than PFP drawers)

Is the PFP motor working? (Perform the output check: 03-109/159)

- NO →
- 1) Check if the signal line connector CN503 of the PFP motor is disconnected.
  - 2) Check if the power line connector CN502 of the PFP motor is disconnected.
  - 3) Check if the connector CN246 on the PFP board is disconnected.
  - 4) Check if the signal line connector CN241 on the PFP board is disconnected.
  - 5) Check if the power line connector CN242 on the PFP board is disconnected.
  - 6) Check if the connector CN303 on the LGC board is disconnected.
  - 7) Check if the connector pins are disconnected or the harnesses are open circuited.
  - 8) Check if the conductor patterns on the PFP motor board, PFP board and LGC board are short circuited or open circuited.
  - 9) Replace the PFP motor.
  - 10) Replace the PFP board.
  - 11) Replace the LGC board.

↓  
YES

Is the LED on the PFP motor board lit without flickering?

- NO →
- 1) Check if the connector pins are disconnected or the harnesses are open circuited.
  - 2) Check if the conductor patterns on the PFP motor board, PFP board and LGC board are short circuited or open circuited.
  - 3) Replace the PFP motor.
  - 4) Replace the PFP board.
  - 5) Replace the LGC board.

↓  
YES

- 1) Check if the PLL lock signal CN246-8 output from the PFP board is always "L" level.
- 2) Check if the voltage supplied to the microcomputer input terminal IC5-17 is always "L" level.
- 3) Replace the PFP board.
- 4) Replace the LGC board.

**[C130] Upper drawer tray is abnormal (paper can be fed from the drawers other than upper drawers)**

**[C140] Lower drawer tray is abnormal (paper can be fed from the drawers other than lower drawers)**

Does the tray go up? (Perform the output check in the test mode: 03-242/243)

- NO →
- 1) Check if the connector of the tray-up motor is disconnected.
  - 2) Check if the connector CN306 on the LGC board is disconnected.
  - 3) Check if the connector pins are disconnected and the harnesses are open circuited.
  - 4) Check if the conductor pattern on the LGC board is short circuited or open circuited.
  - 5) Replace the LGC board.



YES

Is the tray-up sensor working?

(Perform the input check in the test mode: 03-[FAX]OFF/[6]/[H],/[7]/[H])

- NO →
- 1) Check if the connector of the sensor is disconnected.
  - 2) Check if the connector CN305 on the LGC board is disconnected.
  - 3) Check if the slit reaches the sensor.
  - 4) Check if the connector pins are disconnected or the harnesses are open circuited.
  - 5) Check if the conductor pattern on the LGC board is short circuited or open circuited.
  - 6) Replace the LGC board.



YES

- 1) Check if the conductor pattern on the LGC board is short circuited or open circuited.
- 2) Replace the LGC board.

**[C150] PFP upper drawer tray is abnormal (paper can be fed from the drawers other than PFP upper drawer)**

**[C160] PFP lower drawer tray is abnormal (paper can be fed from the drawers other than PFP lower drawer)**

Does the tray go up? (Perform the output check in the test mode: 03-278, 280)

- NO →
- 1) Check if the connector of the tray-up motor is disconnected.
  - 2) Check if any of the connectors CN241, CN242 and CN244 on the PFP board is disconnected.
  - 3) Check if the connector CN303 on the LGC board is disconnected.
  - 4) Check if the connector pins are disconnected or the harnesses are open circuited.
  - 5) Check if the conductor patterns on the PFP board and LGC board are short circuited or open circuited.
  - 6) Replace the PFP board.
  - 7) Replace the LGC board.

↓  
YES

Is the tray-up sensor working?

(Perform the input check in the test mode: 03-[FAX]OFF/[2]/[H], /[4]/[H])

- NO →
- 1) Check if the connector of the sensor is disconnected.
  - 2) Check if any of the connectors CN241, CN247 and CN248 on the PFP board is disconnected.
  - 3) Check if the connector CN303 on the LGC board is disconnected.
  - 4) Check if the slit reaches the sensor.
  - 5) Check if the connector pins are disconnected or the harnesses are open circuited.
  - 6) Check if the conductor patterns on the PFP board and LGC board are short circuited or open circuited.
  - 7) Replace the PFP board.
  - 8) Replace the LGC board.

↓  
YES

- 1) Check if the conductor pattern on the LGC board is short circuited or open circuited.
- 2) Replace the LGC board.

**[C180] LCF tray-up motor is abnormal (paper can be fed from the drawers other than LCF drawer)**

Does the tray move? (Perform the output check in the test mode: 03-271)

- NO →
- 1) Check if the connector of the LCF tray-up motor is disconnected.
  - 2) Check if any of the connectors CN100, CN101 and CN103 on the LCF board is disconnected.
  - 3) Check if the connector CN303 on the LGC board is disconnected.
  - 4) Check if the connector pins are disconnected or the harnesses are open circuited.
  - 5) Check if the conductor patterns on the LCF board and LGC board are short circuited or open circuited.
  - 6) Replace the LCF board.
  - 7) Replace the LGC board.

↓  
YES

Are the LCF tray bottom sensor and LCF tray-up sensor working?

(Perform the input check in the test mode: 03-[FAX]OFF/[5]/[F], /[3]/[A])

- NO →
- 1) Check if the connectors of the sensors are disconnected.
  - 2) Check if any of the connectors CN100, CN104 and CN105 on the LCF board is disconnected.
  - 3) Check if the connector CN303 on the LGC board is disconnected.
  - 4) Check if the slit reaches the sensors.
  - 5) Check if the connector pins are disconnected or the harnesses are open circuited.
  - 6) Check if the conductor patterns on the LCF board and LGC board are short circuited or open circuited.
  - 7) Replace the LCF board.
  - 8) Replace the LGC board.

↓  
YES

- 1) Check if the conductor pattern on the LGC board is short circuited or open circuited.
- 2) Replace the LGC board.



**[C1A0] LCF end fence motor is abnormal**

**(paper can be fed from the drawers other than LCF drawer)**

Is the LCF end fence motor working? (Perform the output check in the test mode: 03-207)

- NO →
- 1) Check if the connector of the LCF end fence motor is disconnected.
  - 2) Check if any of the connectors CN100, CN101 and CN103 on the LCF board is disconnected.
  - 3) Check if the connector CN303 on the LGC board is disconnected.
  - 4) Check if the connector pins are disconnected or the harnesses are open circuited.
  - 5) Check if the conductor patterns on the LCF board and LGC board are short circuited or open circuited.
  - 6) Replace the LCF board.
  - 7) Replace the LGC board.

YES

Are the LCF end fence home/stop position sensors working?

(Perform the input check in the test mode: 03-[FAX]OFF/[5]/[A], /[5]/[B])

- NO →
- 1) Check if the connectors of the sensors are disconnected.
  - 2) Check if either of the connectors CN100 or CN107 on the LCF board is disconnected.
  - 3) Check if the connector CN303 on the LGC board is disconnected.
  - 4) Check if the slit reaches the sensors.
  - 5) Check if the connector pins are disconnected or the harnesses are open circuited.
  - 6) Check if the conductor patterns on the LCF board and LGC board are short circuited or open circuited.
  - 7) Replace the LCF board.
  - 8) Replace the LGC board.

YES

- 1) Check if the conductor pattern on the LGC board is short circuited or open circuited.
- 2) Replace the LGC board.

**[C1B0] LCF transport motor is abnormal**

**(paper can be fed from the drawers other than LCF drawer)**

Is the LCF transport motor working? (Perform the output check in the test mode: 03-122/172)

- NO →
- 1) Check if the connector CN1 of the LCF transport motor is disconnected.
  - 2) Check if the connector CN102 on the LCF board is disconnected.
  - 3) Check if the signal line connector CN100 on the LCF board is disconnected.
  - 4) Check if the power line connector CN101 on the LCF board is disconnected.
  - 5) Check if the connector CN303 on the LGC board is disconnected.
  - 6) Check if the connector pins are disconnected or the harnesses are open circuited.
  - 7) Check if the conductor patterns on the LCF transport motor board, LCF board and LGC board are short circuited or open circuited.
  - 8) Replace the LCF transport motor.
  - 9) Replace the LCF board.
  - 10) Replace the LGC board.



YES

- 1) Check if the connector pins are disconnected or the harnesses are open circuited.
- 2) Check if the conductor patterns on the LCF transport motor board, LCF board and LGC board are short circuited or open circuited.
- 3) Check if the PLL lock signal CN102-3 pin output from the LCF board is always "L" level.
- 4) Check if the voltage supplied to the microcomputer input terminal IC103-17 is always "L" level.
- 5) Replace the LCF transport motor.
- 6) Replace the LCF board.
- 7) Replace the LGC board.

### 5.1.8 Scanning system related service call

#### [C260] Peak detection error

Does the exposure lamp light? (Perform the output check in the test mode: 03-267)

- YES →
- 1) Check if the connectors on the CCD and SLG boards are disconnected.
  - 2) Check if the shading correction plate is dirty.
  - 3) Check if the conductor pattern on the CCD board is short circuited or open circuited.
  - 4) Check if the conductor pattern on the SLG board is short circuited or open circuited.
  - 5) Replace the lens unit.
  - 6) Replace the SLG board.



NO

- 1) Check if the connectors of the exposure lamp and inverter are disconnected.
- 2) Check the SLG board if the connector pin CN9 is disconnected or the harness is short circuited or open circuited.
- 3) Check if the conductor pattern on the SLG board is short circuited or open circuited.
- 4) Replace the SLG board.
- 5) Replace the inverter.
- 6) Replace the exposure lamp.

**[C270] Carriage home position sensor not going OFF within a fixed time**

**[C280] Carriage home position sensor not going ON within a fixed time**

Remove the original glass and move the carriages to the paper feeding side. Turn ON the power and check the following items.

**[C270] Are the carriages slightly moved to the feeding direction? Are the carriages staying at a position other than home position?**

- YES →
- 1) Check if the connector of the scan motor is disconnected.
  - ↓ 2) Check if the connector pin is disconnected and the harness is short circuited or open circuited.
  - 3) Replace the SLG board.

NO

- 1) Check if the connector pin is disconnected and the harness is short circuited or open circuited.
- 2) Check if the conductor pattern on the SLG board is short circuited or open circuited.
- 3) Replace the SLG board.

**[C280] Do the carriages make a big noise after they arrive at the home position?**

- YES → The carriage home position sensor is not turned ON.
- 1) Check if the connector of the sensor is disconnected.
  - ↓ 2) Replace the carriage home position sensor.
  - 3) Replace the SLG board.

NO

The carriages are stopped at the home position and do not move.

- 1) Check if the connector pins are disconnected and the harnesses are short circuited or open circuited.
- 2) Check if the conductor pattern on the SLG board is short circuited or open circuited.
- 3) Replace the SLG board.

## 5.1.9 Fuser unit related service call

### CAUTION

Be sure to turn OFF the power and unplug the power cable beforehand when checking the IH control circuit and IH coil.

The fuser unit itself or the part of the unit remains heated and the capacitors are still charged after a while the power cable is unplugged. So make sure the unit is cooled down enough before checking.

### [C410] Thermistor or heater abnormality at power ON

#### 1. Check the thermistors

- (1) Check if the connectors are disconnected.
- (2) Check if the main and edge thermistors are in contact with the surface of the fuser roller properly?
- (3) Check if the harnesses of the main and edge thermistors are open circuited.

#### 2. Check the IH board and IH coil

- (1) Check if the IH coil is broken.
- (2) Check if the connector of the IH coil is disconnected.
- (3) Check if the thermostat is blown.
- (4) Check if the connectors on the IH board are disconnected (AC input connector and LGC I/F connector CN455/456).
- (5) Check if the IH board or the switching power supply unit are abnormal.
  - Replace the IH control board.

#### 3. Check the LGC board

- (1) Check if the connectors CN316 are disconnected.
- (2) Check if the conductor pattern on the LGC board is short circuited or open circuited.
- (3) Replace the LGC board.

#### 4. Clear the status counter

After repairing the matter which caused the error [C410], perform the following:

- (1) Turn ON the power while [0] and [8] are pressed simultaneously.
- (2) Key in "400", then press [START].
- (3) Change the current status counter value "1" or "2" to "0", then press [ENTER] or [INTERRUPT] (to cancel [C410]).
- (4) Turn the power OFF and then back ON. Make sure that the equipment enters the normal ready state.

### **[C440] Fuser abnormality after abnormality judgment**

#### **1.2.3. Check the thermistors, IH board, IH coil and LGC board**

Check the above components following the procedures 1, 2 and 3 for [C410].

#### **4. Clear the status counter**

Change the current status counter value (08-400) "5", "7" or "9" to "0" for [C440], taking the same procedure as that for [C410].

- The status counter value is as follows in the following cases. Change them to "0" respectively.
  - The error occurred during warming-up: "5"
  - The error occurred after the equipment has become ready: "7"
  - The temperature detected by the main thermistor is 230°C or higher: "9"
  - The temperature detected by the edge thermistor is 280°C or higher: "9"

### **[C450] Thermistor abnormality during printing**

#### **1. Check the edge thermistor**

- 1) Check if the connector is disconnected.
- 2) Check if the edge thermistor is in contact with the surface of the fuser roller properly.
- 3) Check if the harness of the edge thermistor is open circuited.

#### **2. Check the LGC board**

- 1) Check if the connector CN302 is disconnected.
- 2) Check if the conductor pattern on the board is short circuited or open circuited.
- 3) Replace the LGC board.

#### **3. Clear the status counter**

Change the current status counter value (08-400) "6" to "0".

## **[C470] IH power voltage is abnormal / IH initialization error**

### **1. Check the AC input voltage**

Check if the AC input voltage is within the specified range. (especially when the heater becomes ON after the power is turned ON (the equipment is warming up))

### **2. Check the thermostat**

Check if the thermostat is blown.

### **3. Check the IH board**

- 1) Check if the AC input connector on the IH board or the LGC I/F connector CN455/456 is disconnected?
- 2) Check if the fuse on the IH board has blown.
- 3) Replace the IH board.

### **4. Check the LGC board**

- 1) Check if the connector CN316 is disconnected.
- 2) Check if the conductor pattern on the board is short circuited or open circuited.
- 3) Replace the LGC board.

### **5. Check the LGC board**

Change the values "10", "11", "14" or "17" of the status counter (08-400) to "0".

- \* The status counter value is as follows in the following cases. Change them to "0" respectively.
  - The error occurred immediately after the power was turned ON: "10"
  - The error occurred before the temperature of the fuser roller reaches 40°C: "11"
  - The error occurred before the equipment has become ready: "14"
  - The error occurred when the equipment is in the ready state or during printing: "17"

## **[C480] IGBT high temperature**

### 1. Check the operation of the IH board cooling fan

Check if the IH board cooling fan is rotating normally. (Is the connector securely connected?)

### 2. Check the IH board

- (1) Check if the IGBT or IGBT radiation plate are normal. (Is the radiation plate securely attached?)
- (2) Check if the conductor pattern on the board is short circuited or open circuited.
- (3) Replace the IH board.

### 3. Clear the status counter

Change the values "12", "15" or "18" of the status counter (08-400) to "0".

- \* The status counter value is as follows in the following cases. Change them to "0" respectively.
- The error occurred before the temperature of the fuser roller reaches 40°C: "12"
- The error occurred before the equipment has become ready: "15"
- The error occurred when the equipment is in the ready state or during printing: "18"

## **[C490] IH circuit or coil is abnormal**

### 1. Check the IH board

- (1) Check if the conductor pattern on the board is short circuited or open circuited.
- (2) Replace the IH board.

### 2. Check the IH coil

- (1) Check if the coil is broken or shorted.
- (2) Replace the IH coil.

### 3. Clear the status counter

Change the values "13", "16" or "19" of the status counter (08-400) to "0".

- \* The status counter value is as follows in the following cases. Change them to "0" respectively.
- The error occurred before the temperature of the fuser roller reaches 40°C: "13"
- The error occurred before the equipment has become ready: "16"
- The error occurred when the equipment is in the ready state or during printing: "19"

[C470], [C480] and [C490] can be cleared by turning OFF and ON the power as long as the problem was solved, and the status counter does not have to be changed to "0". The value of the status counter remains until the next service call overwrites the value.



## 5.1.10 Communication related service call

### [C550 (C780)] RADF I/F error

- (1) Check if the harness connecting the RADF board and SLG board is disconnected or open circuited.
- (2) Check if the conductor pattern on the RADF board is short circuited or open circuited.
- (3) Check if the conductor pattern on the SLG board is short circuited or open circuited.
- (4) Replace the RADF board.
- (5) Replace the SLG board.

### [C570] Communication error between main CPU and IPC board

- (1) Check if the LGC board and IPC board are connected properly.
- (2) Check if the conductor pattern on the IPC board is short circuited or open circuited.
- (3) Check if the conductor pattern on the LGC board is short circuited or open circuited.
- (4) Replace the IPC board.
- (5) Replace the LGC board.

### [C580] Communication error between IPC board and finisher

- (1) Check if the specified finisher is attached.
- (2) Check if the harness connecting the IPC board and the finisher controller PC board is disconnected or open circuited.
- (3) Check if the conductor pattern on the IPC board is short circuited or open circuited.
- (4) Check if the conductor pattern on the finisher controller PC board is short circuited or open circuited.
- (5) Replace the IPC board.
- (6) Replace the finisher controller PC board.

### [F070] Communication error between system CPU and main CPU

- (1) Check if the harness connecting the SYS board (CN117) and LGC board (CN321) is disconnected or open circuited.
- (2) Check the version of the system ROM on the SYS board.
- (3) Check the version of the engine ROM version on the LGC board.
- (4) Replace the SYS board.
- (5) Replace the LGC board.

### [F110] Communication error between system CPU and scanner CPU

#### [F111] Scanner response abnormality

- (1) Check if the harness connecting the SYS board and SLG board is disconnected or open circuited.
- (2) Check the version of the system ROM on the SYS board.
- (3) Check the version of the scanner ROM version on the SLG board.
- (4) Replace the SYS board.
- (5) Replace the SLG board.

## 5.1.11 RADF related service call (MR-3015)

### Note:

When performing the RADF related troubleshooting, be sure to perform "Automatic adjustment of RADF sensor and EEPROM initialization (05-356)" and "RADF original guide width adjustment (05-367/368)" consecutively at the Adjustment Mode whenever the RADF board, original length sensor, read sensor or reverse sensor has been replaced.

### [C730] EEPROM initialization error

- (1) Check the RADF board, mainly IC12, for short circuits and open circuits.
- (2) Replace the RADF board.

### [C740] Reverse sensor adjustment error

- (1) Check if there is any foreign matter between the reverse sensor and the reflecting mirror. Check if the reflecting mirror is dirty.
- (2) Check if the harness connecting the reverse sensor and the RADF board is open circuited.
- (3) Check the circuits and connectors on the RADF board, mainly IC3, IC4 and CN4, for short circuits and open circuits.
- (4) Replace the reverse sensor.
- (5) Replace the RADF board.

### [C810] Fan motor is abnormal

- (1) Check if the load on the motor shaft is normal.
- (2) Remove foreign matters.
- (3) Check if the harness connecting the fan motor and RADF board is open circuited.
- (4) Check if the power is supplied to the pin 1 of the CN9 on the RADF board during the operation.
- (5) Check the circuits and connectors on the RADF board, mainly Q12 and Q16, for short circuits and open circuits.
- (6) Replace the fan motor.
- (7) Replace the RADF board.

### [C820] Read sensor adjustment error

- (1) Check if there is any foreign matter between the read sensor and the reflecting mirror. Check if the reflecting mirror is dirty.
- (2) Check if the harness connecting the read sensor and the RADF board is open circuited.
- (3) Check the circuits and connectors on the RADF board, mainly IC3, IC4 and CN6, for short circuits and open circuits.
- (4) Replace the read sensor.
- (5) Replace the RADF board.

### [C830] Original length sensor adjustment error

- (1) Check if there is any foreign matter between the original length sensor and reflecting mirror. Check if the reflecting mirror is dirty.
- (2) Check if the harness connecting the original length sensor and the RADF board is open circuited.
- (3) Check the circuits and connectors on the RADF board, mainly IC3, IC4 and CN3, for short circuits and open circuits.
- (4) Replace the original length sensor.
- (5) Replace the RADF board.

## 5.1.12 RADF related service call (MR-3018)

No service call for the RADF (MR-3018)

## 5.1.13 Laser optical unit related service call (MR-3018)

### [CA10] Polygonal motor is abnormal

Is the polygonal motor rotating?

- NO →
- 1) Check if the connector of the harness is disconnected between LGC board (CN308) and the laser optical unit?
  - 2) Check if the harness is open circuited and the connector pin is disconnected.
  - 3) Check if the conductor pattern on the LGC board is short circuited or open circuited.
  - 4) Replace the laser optical unit.
  - 5) Replace the LGC board.

↓

YES

- 1) Check if the conductor pattern on the LGC board is short circuited or open circuited.
- 2) Replace the LGC board.

### [CA20] H-Sync detection error

Are the harness open circuited and the connectors disconnected between the LGC board (CN309) and LRL board (CN204), and between the LRL board (CN204) and laser optical unit?

YES → Replace the harness. Connect the disconnected connectors.

↓

NO

- 1) Replace the LGC board.
- 2) Replace the laser optical unit.

## 5.1.14 Finisher related service call

### [CB10] Entrance motor abnormality

MJ-1101

Is there any mechanical problem when the entrance roller is rotated?

↓ →YES Fix the mechanism.

NO

Is the harness between the entrance motor (M1) and the finisher control PC board (CN7) disconnected or open circuited?

I →YES • Reconnect the connector securely.

↓ • Replace the harness.

NO

1) Replace the entrance motor (M1).

2) Replace the finisher control PC board.

### [CB11] Buffer tray guide motor abnormality

\* You receive a [CB11] error when the [ED16] error occurs three times in succession.

MJ-1101

Is there any mechanical problem when the buffer tray guide is opened/closed while the buffer roller is lifted up?

↓ →YES Fix the mechanism.

NO

Is the harness between the buffer tray guide motor (M3) and the finisher control PC board (CN18) disconnected or open circuited?

I →YES • Reconnect the connector securely.

↓ • Replace the harness.

NO

1) Replace the buffer tray guide motor (M3).

2) Replace the finisher control PC board.

### [CB12] Buffer roller drive motor abnormality

MJ-1101

Is there any mechanical problem when the buffer roller is rotated?

↓ →YES Fix the drive mechanism.

NO

Is the harness between the buffer roller drive motor (M6) and the finisher control PC board (CN18) disconnected or open circuited?

I →YES • Reconnect the connector securely.

↓ • Replace the harness.

NO

1) Replace the buffer roller drive motor (M6).

2) Replace the finisher control PC board.

## **[CB20] Delivery motor abnormality**

MJ-1022

Rotate the delivery roller by hand. Does it rotate smoothly?

↓ NO → Fix the mechanism.

YES

Is the wiring between the finisher controller PC board and delivery motor (M1) correct?

↓ NO → Correct the wiring.

YES

Is the delivery motor clock sensor (S1) working properly?

↓ NO → Replace the sensor.

YES

- 1) Replace the delivery motor (M1).
- 2) Replace the finisher controller PC board.

## **[CB30] Tray 1/2 shift motor abnormality**

MJ-1023/1024

Are the tray 1 shift area sensors 1-3 and tray 2 shift area sensors 1-3 normal?

↓ NO → Replace the tray 1/2 shift area sensor boards.

YES

Are the wirings between the finisher controller PC board and the tray 1/2 shift motors (M37/M38) correct?

↓ NO → Correct the wirings.

YES

Is there any problem with the tray lift mechanism?

↓ NO → Fix the lift mechanism.

YES

- 1) Replace the tray 1/2 shift motors.
- 2) Replace the finisher controller PC board.

## **[CB30] Movable tray shift motor abnormality**

MJ-1101

Is there any mechanical problem when the movable tray is moved?

↓ →YES Fix the mechanism.

NO

Is the harness between the movable tray shift motor (M7) and the finisher control PC board (CN8) disconnected or open circuited?

I →YES • Reconnect the connector securely.

↓ • Replace the harness.

NO

Is there a disconnection of the connector, incorrect installation or breakage of the movable tray position A, B, and C sensors (S13, S14, and S15)?

I →YES • Replace the harness.

↓ • Reinstall the sensor correctly.

• Replace the sensor.

NO

- 1) Replace the movable tray shift motor (M7).
- 2) Replace the finisher control PC board.

### [CB31] Movable tray paper-full detection error

MJ-1101

Is there any mechanical problem when the actuator of the movable tray paper-full detection sensor (S17) is moved?

↓ →YES Fix the mechanism.

NO

Is there a disconnection of the connector, incorrect installation or breakage of the movable tray paper-full detection sensor (S17)?

I →YES • Connect the connector securely.  
I • Reinstall the sensor correctly.  
↓ • Replace the sensor.

NO

Is the harness between the movable tray paper-full detection sensor (S17) and the finisher control PC board (CN13) disconnected or open circuited?

I →YES • Reconnect the connector securely.  
↓ • Replace the harness.

NO

Replace the finisher control PC board.

### [CB40] Rear aligning plate motor abnormality

MJ-1023/1024

Is the rear aligning plate home position sensor (PI37) normal?

↓ NO → Replace the sensor.

YES

Is the wiring between the finisher controller PC board and the rear aligning plate motor (M34) correct?

↓ NO → Correct the wiring.

YES

Is there any mechanical problem with the path of aligning plate?

↓ NO → Fix the mechanism.

YES

- 1) Replace the rear aligning plate motor.
- 2) Replace the finisher controller PC board.

### [CB40] Front alignment motor abnormality

**\* You receive a [CB40] error when the [ED13] error occurs three times in succession.**

MJ-1101

Is there any mechanical problem when the front alignment plate is moved?

↓ →YES Fix the mechanism.

NO

Is the harness between the front alignment motor (M9) and the finisher control PC board (CN10) disconnected or open circuited?

I →YES • Reconnect the connector securely.  
↓ • Replace the harness.

NO

Replace the front alignment motor (M9).

## **[CB50] Stapler motor abnormality**

MJ-1022/1023/1024

Is the wiring between the stapler and finisher controller PC board correct?

↓ NO → Correct the wiring.

YES

1) Replace the stapler.

2) Replace the finisher controller PC board.

## **[CB50] Stapler home position error**

**\* You receive a [CB50] error when the [EA50] error occurs three times in succession.**

MJ-1101

Is the harness between the stapler and the finisher control PC board (CN2) disconnected or open circuited?

I →YES • Reconnect the connector securely.

↓ • Replace the harness.

NO

Are the harnesses in the stapler disconnected or open circuited?

I →YES • Reconnect the connector securely.

↓ • Replace the harness.

NO

Replace the finisher control PC board.

## **[CB51] Stapler shift home position error**

MJ-1101

Is there any mechanical problem when the stapler is moved?

↓ →YES Fix the mechanism.

NO

Is there a disconnection of the connector, incorrect installation or breakage of the stapler unit home position sensor (S10)?

I →YES • Connect the connector securely.

I • Reinstall the sensor correctly.

↓ • Replace the sensor.

NO

Is the harness between the stapler unit home position sensor (S10) and the finisher control PC board (CN1) disconnected or open circuited?

I →YES • Reconnect the connector securely.

↓ • Replace the harness.

NO

Is the harness between the stapler unit shift motor (M4) and the finisher control PC board (CN5) disconnected or open circuited?

I →YES • Reconnect the connector securely.

↓ • Replace the harness.

NO

Replace the finisher control PC board.

## **[CB60] Stapler unit shift motor abnormality**

### MJ-1023/1024

Is the stapler shift home position sensor (PI40) working normally?

↓ NO → Replace the sensor.

YES

Is the wiring between the finisher controller PC board and the stapler shift motor (M35) correct?

↓ NO → Correct the wiring.

YES

Is there any mechanical problem with the stapler stand motion path?

↓ YES → Fix the mechanism.

NO

1) Replace the stapler shift motor.

2) Replace the finisher controller PC board.

### MJ-1101

Is there any mechanical problem when the stapler is moved?

↓ → YES Fix the mechanism.

NO

Is the harness between the stapler unit shift motor (M4) and the finisher control PC board (CN5) disconnected or open circuited?

↓ → YES • Reconnect the connector securely.

↓ • Replace the harness.

NO

1) Replace the stapler unit shift motor (M4).

2) Replace the finisher control PC board.

## **[CB80] Backup RAM data abnormality**

### MJ-1023/1024

Is the problem solved by turning the power of the equipment OFF and ON?

↓ YES → End.

NO

1) Replace the finisher controller PC board.

2) Replace the punch controller PC board.

## **[CB80] RAM abnormality**

### MJ-1101

Is the error recovered when the power of the equipment is turned OFF and then back ON?

↓ → YES End.

NO

Replace the finisher control PC board.



**[CB81] Flash ROM abnormality**

MJ-1101

Is the error recovered when the power of the equipment is turned OFF and then back ON?

↓ →YES End.

NO

- 1) Check if the conductor pattern on the finisher controller PC board is open circuited or short circuited.
- 2) Replace the finisher control PC board.

**[CB90] Saddle stitcher paper pushing plate motor abnormality**

MJ-1024

Are the paper pushing plate home position sensor (PI14), paper pushing plate top position sensor (PI15) and paper pushing plate motor clock sensor (PI1) working normally?

↓ NO → Replace the sensor.

YES

Is the paper pushing plate drive mechanism normal?

↓ NO → Fix the mechanism.

YES

- 1) Replace the paper pushing plate motor (M8).
- 2) Replace the saddle stitcher controller PC board.

**[CBA0] Saddle stitcher stitch motor (front) abnormality****[CBB0] Saddle stitcher stitch motor (rear) abnormality**

MJ-1024

Are the front and rear stitchers and their stands installed properly?

↓ NO → Install them properly.

YES

Are the stitcher home position switches (SW7/SW5) on the front and rear stitchers and stitcher motors (M7/M6) working normally?

↓ NO → Replace the front or rear stitcher.

YES

Replace the saddle stitcher controller PC board.

**[CBC0] Saddle stitcher alignment motor abnormality**

MJ-1024

Is the alignment plate home position sensor (PI5) working normally?

↓ NO → Replace the sensor.

YES

Is the alignment plate drive mechanism normal?

↓ NO → Fix the mechanism.

YES

- 1) Replace the alignment motor (M5).
- 2) Replace the saddle stitcher controller PC board.

#### **[CBD0] Saddle stitcher guide motor abnormality**

MJ-1024

Is the guide home position sensor (PI13) working normally?

↓ NO → Replace the sensor.

YES

Is the guide plate drive mechanism normal?

↓ NO → Fix the mechanism.

YES

- 1) Replacing the guide motor (M3).
- 2) Replace the saddle stitcher controller PC board.

#### **[CBE0] Saddle stitcher paper folding motor abnormality**

MJ-1024

Are the paper folding motor clock sensor (PI4) and paper folding home position sensor (PI21) working normally?

↓ NO → Replace the sensors.

YES

Is the paper folding roller drive mechanism normal?

↓ NO → Fix the mechanism.

YES

- 1) Replacing the paper folding motor (M2).
- 2) Replace the saddle stitcher controller PC board.

#### **[CBF0] Saddle stitcher paper positioning plate motor abnormality**

MJ-1024

Is the paper positioning plate home position sensor (PI7) working normally?

↓ NO → Replace the sensor.

YES

Is the paper positioning plate drive mechanism normal?

↓ NO → Fix the mechanism.

YES

- 1) Replacing the paper positioning plate motor (M4).
- 2) Replace the saddle stitcher controller PC board.

## **[CC00] Connection abnormality in saddle stitcher sensor connector**

MJ-1024

Are the guide home position sensor (PI13), paper pushing plate home position sensor (PI14) and paper pushing plate top position sensor (PI15) connected to the saddle stitcher controller PC board?

↓ NO → Connect them to the board.

YES

Is the wiring between the sensors and the saddle stitcher correct?

↓ NO → Correct the wiring.

Is 5V DC being supplied from the connector pins J9-7, -10 and -13 on the saddle stitcher controller PC board?

↓ NO → Replace the saddle stitcher controller PC board.

YES

Are the connector pins J9-8, -11 and -14 on the saddle stitcher controller PC board correctly connected to the ground?

↓ NO → Replace the saddle stitcher controller PC board.

YES

End.

## **[CC10] Saddle stitcher microswitch abnormality**

MJ-1024

Are the front cover switch (MS31), inlet door switch (SW1) and delivery door switch (SW3) normal?

↓ NO → Replace the switches.

YES

Measure the voltage between J704-1 (+) and J704-2 (-) on the finisher controller PC board. Is it 24V?

↓ NO → Replace the finisher controller PC board.

YES

Is the wiring between J704 on the finisher controller PC board and J1 on the saddle stitcher controller PC board correct?

↓ NO → Correct the wiring.

YES

Replace the saddle stitcher controller PC board.

## **[CC20] Communication error between finisher and saddle stitcher**

MJ-1024

Is the problem solved by turning OFF and ON the power switch of the equipment?

↓ YES → End.

NO

Is the wiring between the finisher controller PC board and the saddle stitcher controller PC board connected?

↓ NO → Connect the wiring.

YES

1) Replace the finisher controller PC board.

2) Replace the saddle stitcher controller PC board.

## **[CC30] Stack processing motor abnormality**

MJ-1022

[Procedure 1]

Is the tension of the drive belt normal?

↓ NO → Loosen the adjustment screw to adjust its tension.

YES

Does the bushing attached to the returning roller shaft smoothly move up and down?

↓ NO → Apply grease on the cut-out part of the front side frame with where the bushing contacts.

YES

Is the spring of the returning roller detached?

↓ YES → Attach the spring.

NO

Is the wiring between the finisher controller PC board and stack processing motor (M2) correct?

↓ NO → Correct the wiring.

YES

Is the stack delivery lever home position sensor (S8) working properly?

↓ NO → Replace the sensor.

YES

1) Replacing the stack processing motor.

2) Replace the finisher controller PC board.

[Procedure 2]

Does the bushing attached to the returning roller shaft smoothly move up and down?

↓ NO → Apply grease on the cut-out part of the front side frame where the bushing contacts.

YES

Is the spring of the returning roller detached?

↓ YES → Attach the spring.

NO

Is the tension of the stack processing motor drive belt normal?

↓ NO → Loosen the adjustment screw to adjust its tension.

YES

Is the returning roller home position sensor (S3) working properly?

↓ NO → Replace the sensor.

YES

1) Replace the stack delivery motor.

2) Replace the finisher controller PC board.

### **[CC30] Stack transport motor abnormality**

**\* You receive a [CC30] error when the [EA70] error occurs three times in succession.**

#### MJ-1101

Is there any mechanical problem when the stack transport belt is moved?

↓ →YES Fix the mechanism.

NO

Is the harness between the stack transport motor (M5) and the finisher control PC board (CN10) disconnected or open circuited?

I →YES • Reconnect the connector securely.

↓ • Replace the harness.

NO

1) Replace the stack transport motor (M5).

2) Replace the finisher control PC board.

### **[CC31] Transport motor abnormality**

**\* You receive a [CC31] error when the [ED12] error occurs three times in succession.**

#### MJ-1101

Is there any mechanical problem when the stack transport roller -1 and -2 are rotated?

↓ →YES Fix the mechanism.

NO

Is the harness between the transport motor (M2) and the finisher control PC board (CN5) disconnected or open circuited?

I →YES • Reconnect the connector securely.

↓ • Replace the harness.

NO

1) Replace the transport motor (M2).

2) Replace the finisher control PC board.

### **[CC40] Swing motor abnormality**

#### MJ-1023/1024

Is the swing unit home position sensor (PI35) normal?

↓ NO → Replace the sensor.

YES

Is the wiring between the finisher controller PC board and the swing motor (M36) correct?

↓ NO → Correct the wiring.

YES

Is the swing mechanism normal?

↓ NO → Fix the mechanism.

YES

1) Replace the swing motor.

2) Replace the finisher controller PC board.

### **[CC41] Paper holder cam home position abnormality**

MJ-1101

Is there any mechanical problem when the paper holder cam is rotated?

↓ →YES Fix the mechanism.

NO

Is the harness between the paper holder home position sensor (S6) and the finisher control PC board (CN17) disconnected or open circuited?

↓ →YES • Reconnect the connector securely.

↓ • Replace the harness.

NO

1) Replace the paper holder home position sensor (S6).

2) Replace the finisher control PC board.

### **[CC50] Horizontal registration motor abnormality**

MJ-1023/1024 (when MJ-6004 is installed)

Is the horizontal registration home position sensor (PI61) working normally?

↓ NO → Replace the sensor.

YES

Is the wiring between the horizontal registration home position sensor and finisher controller PC board correct?

↓ NO → Correct the wiring.

YES

Is the horizontal registration mechanism normal?

↓ NO → Fix the mechanism.

YES

1) Replace the horizontal registration motor (M62).

2) Replace the punch controller PC board.

3) Replace the finisher controller PC board.

### **[CC51] Sideways adjustment motor (M2) abnormality**

**\* The [CC51] error will be displays when the [ED11] error occurs three times in succession or during the initial operation.**

MJ-1101 (When MJ-6101 is installed)

Is there any paper remaining on the transport path?

↓ →YES Remove the paper.

NO

Rotate the sideways adjustment motor (M2). Does it rotate smoothly?

↓ →NO Fix the mechanism.

YES

Are the sideways deviation home position sensor (S3) and its wiring correct?

↓ →NO Replace the sensor. Correct the wiring.

YES

Is the wiring between the hole punch control PC board (HP) and sideways adjustment motor (M2) correct?

↓ →NO Correct the wiring.

YES

1) Replace the punch sideways adjustment motor (M2).

2) Replace the hole punch control PC board (HP).

### [CC52] Skew adjustment motor (M1) abnormality

\* The [CC52] error will be displays when the [ED10] error occurs three times in succession or during the initial operation.

MJ-1101 (When MJ-6101 is installed)

Is there any paper remaining on the transport path?

↓ →YES Remove the paper.

NO

Rotate the skew adjustment motor (M1). Does it rotate smoothly?

↓ →NO Fix the mechanism.

YES

Are the skew home position sensor (S2) and its wiring correct?

↓ →NO Replace the sensor. Correct the wiring.

YES

Is the wiring between the hole punch control PC board (HP) and skew adjustment motor (M1) correct?

↓ →NO Correct the wiring.

YES

- 1) Replace the skew adjustment motor (M1).
- 2) Replace the hole punch control PC board (HP).

### [CC60] Punch motor abnormality

MJ-1023/1024 (when MJ-6004 is installed)

Are the punch home position sensor (PI63) and punch motor clock sensor (PI62) working normally?

↓ NO → Replace the sensors.

YES

Is the wiring between the sensors and finisher controller PC board correct?

↓ NO → Correct the wiring.

YES

Is the punching mechanism normal?

↓ NO → Fix the mechanism.

YES

- 1) Replace the punch motor (M61).
- 2) Replace the punch controller PC board.
- 3) Replace the finisher controller PC board.

### **[CC61] Punch motor (M3) home position detection error**

**\* The [CC61] error will be displays when the [E9F0] error occurs three times in succession or during the initial operation.**

MJ-1101 (When MJ-6101 is installed)

Is there any paper remaining on the transport path?

↓ →YES Remove the paper.

NO

Rotate the punch motor (M3). Does it rotate smoothly?

↓ →NO Fix the mechanism.

YES

Are the punch home position sensor (S4) and its wiring correct?

↓ →NO Replace the sensor. Correct the wiring.

YES

Is the wiring between the hole punch control PC board (HP) and punch motor (M3) correct?

↓ →NO Correct the wiring.

YES

1) Replace the punch motor (M3).

2) Replace the hole punch control PC board (HP).

### **[CC71] Punch ROM checksum error**

MJ-1101 (When MJ-6101 is installed)

Is the conductor pattern on the hole punch control PC board (HP) open circuited or short circuited?

↓ →YES Replace the hole punch control PC board (HP).

NO

Replace the finisher control PC board.

### **[CC72] Punch RAM read/write error**

MJ-1101 (When MJ-6101 is installed)

Is the conductor pattern on the hole punch control PC board (HP) open circuited or short circuited?

↓ →YES Replace the hole punch control PC board (HP).

NO

Replace the finisher control PC board.



**[CC80] Front jogging motor abnormality/Front aligning plate motor abnormality**

MJ-1022 (Front jogging motor abnormality)

Is the front jogging plate home position sensor (S6) working properly?

↓ NO → Replace the sensor.

YES

Is the wiring between the finisher controller PC board and front jogging motor (M3) correct?

↓ NO → Correct the wiring.

YES

Has the rack run over the stopper of the roll?

↓ YES → Fix it.

NO

- 1) Replace the front jogging motor.
- 2) Replace the finisher controller PC board.

MJ-1023/1024 (Front aligning plate motor abnormality)

Is the front aligning plate home position sensor (PI36) normal?

↓ NO → Replace the sensor.

YES

Is the wiring between the finisher controller PC board and the front aligning plate motor (M33) correct?

↓ NO → Correct the wiring.

YES

Is there any mechanical problem with the path of aligning plate?

↓ NO → Fix the mechanism.

YES

- 1) Replace the front aligning plate motor.
- 2) Replace the finisher controller PC board.

### **[CC80] Rear alignment motor abnormality**

**\* You receive a [CC80] error when the [ED14] error occurs three times in succession.**

MJ-1101

Is there any mechanical problem when the rear alignment plate is moved?

↓ →YES Fix the mechanism.

NO

Is the harness between the rear alignment motor (M10) and the finisher control PC board (CN10) disconnected or open circuited?

I →YES • Reconnect the connector securely.

↓ • Replace the harness.

NO

1) Replace the rear alignment motor (M10).

2) Replace the finisher control PC board.

### **[CC90] Upper stack tray lift motor abnormality**

MJ-1022

Is the wiring between the finisher controller PC board and upper stack tray lift motor (M5) correct?

↓ NO → Correct the wiring.

YES

Are the front and rear sides of the upper stack tray leveled?

↓ NO → Level them.

YES

Is the upper stack tray lift motor clock sensor (S19) working properly?

↓ NO → Replace the sensor.

YES

Is the stack tray paper height sensor (S10) working properly?

↓ NO → Replace the sensor.

YES

Are the upper stack tray upper limit sensor (S25), upper stack tray full sensor (S22) and stack processing safety switch (S26) working properly?

↓ NO → Replace the sensor or sensor controller PC board.

YES

Does the voltage between the pins J14-1 and -2 on the finisher controller PC board become 24V when the upper stack tray lift motor starts rotating?

↓ NO → Replace the finisher controller PC board.

YES

Check the wiring between the upper stack tray lift motor and finisher controller PC board. If there is no problem, replace the upper stack tray lift motor.

## **[CCA0] Lower stack tray lift motor abnormality**

MJ-1022

Is the wiring between the finisher controller PC board and lower stack tray lift motor (M7) correct?

↓ NO → Correct the wiring.

YES

Are the front and rear sides of the lower stack tray leveled?

↓ NO → Level them.

YES

Is the lower stack tray lift motor clock sensor (S9) working properly?

↓ NO → Replace the sensor.

YES

Is the stack tray paper height sensor (S10) working properly?

↓ NO → Replace the sensor.

YES

Are the lower stack tray upper limit sensor (S13) and lower stack tray full sensor (S23) working properly?

↓ NO → Replace the sensor or sensor controller PC board.

YES

Does the voltage between the pins J3-1 and -2 on the finisher controller PC board become 24V when the lower stack tray lift motor starts rotating?

↓ NO → Replace the finisher controller PC board.

YES

Check the wiring between the upper stack tray lift motor and finisher controller PC board. If there is no problem, replace the motor.

5

## **[CCB0] Rear jogging motor abnormality**

MJ-1022

Is the rear jogging plate home position sensor (S7) working properly?

↓ NO → Replace the sensor.

YES

Is the wiring between the finisher controller PC board and rear jogging motor (M4) correct?

↓ NO → Correct the wiring.

YES

Has the rack run over the stopper of the roll?

↓ YES → Fix it.

NO

1) Replace the rear jogging motor.

2) Replace the finisher controller PC board.

### **[CCD0] Stack ejection motor abnormality**

MJ-1023/1024

Is the shutter home position sensor (PI45) normal?

↓ NO → Replace the sensor.

YES

Are the wirings between the finisher controller PC board and the stack ejection motor (M32) shutter clutch (CL31) correct?

↓ NO → Correct the wirings.

YES

Is there any problem with the shutter mechanism?

↓ YES → Fix the shutter mechanism.

NO

1) Replace the stack ejection motor and shutter clutch.

2) Replace the finisher controller PC board.

### **[CCE0] Rear end assist motor abnormality**

MJ-1023/1024

Is the rear end assist guide home position sensor (PI39) normal?

↓ NO → Replace the sensor.

YES

Is the wiring between the finisher controller PC board and the rear end assist motor (M39) correct?

↓ NO → Correct the wiring.

YES

Is there any problem with the rear end assist mechanism?

↓ YES → Fix the rear end assist mechanism.

NO

1) Replace the rear end assist motor.

2) Replace the finisher controller PC board.

### **[CCF0] Gear change motor abnormality**

MJ-1023/1024

Is the gear change home position sensor (PI49) normal?

↓ NO → Replace the sensor.

YES

Is the wiring between the finisher controller PC board and the gear change motor (M40) correct?

↓ NO → Correct the wiring.

YES

Is there any problem with the gear change mechanism?

↓ YES → Fix the gear change mechanism.

NO

1) Replace the gear change motor.

2) Replace the finisher controller PC board.

### **[CDE0] Paddle motor abnormality**

**\* You receive a [CDE0] error when the [ED15] error occurs three times in succession or during the initial operation.**

#### MJ-1101

Is there any mechanical problem with the paddle is rotated?

↓ →YES Fix the mechanism.

NO

Is the harness between the paddle motor (M8) and the finisher control PC board (CN6) disconnected or open circuited?

I →YES • Reconnect the connector securely.

↓ • Replace the harness.

NO

1) Replace the paddle motor (M8).

2) Replace the finisher control PC board.

### **[CE00] Communication error between finisher and puncher unit**

#### MJ-1023/1024 (When MJ-6004 is installed)

Is the problem solved by turning OFF and ON the power of the equipment?

↓ YES→ End.

NO

Is the wiring between the finisher controller PC board and punch controller PC board correct?

↓ NO → Correct the wiring.

YES

1) Replace the finisher controller PC board.

2) Replace the punch controller PC board.

### **[CE00] Punch communication error**

#### MJ-1101 (When MJ-6101 is installed)

Is the harness between the hole punch control PC board (HP) and the finisher control PC board disconnected or open circuited?

↓ →YES Replace the harness. Correct the wiring.

NO

Is the conductor pattern on the hole punch control PC board (HP) open circuited or short circuited?

↓ →YES Replace the hole punch control PC board (HP).

NO

Replace the finisher control PC board.

## [CF10]

<Undefined error code processing>

### MJ-1022/1023/1024

- 1) Is the error recovered when the power of the equipment is turned OFF and then back ON?
- 2) If not as in step 1, check if the LGC board and IPC board are connected correctly.
- 3) If the error has still not been recovered in step 2, check if there is any defect in the LGC board, IPC board or finisher control board. If not, replace the LGC board, IPC board or finisher control board.

<Communication module SRAM writing failure>

### MJ-1101

- 1) Is the error recovered when the power of the equipment is turned OFF and then back ON?
- 2) Check if the MJ-1101 (08-1912) is set as the specified finisher on the equipment.
- 3) Check if the harness connecting the converter PC board and the finisher controller PC board is disconnected or open circuited.
- 4) Check if the conductor pattern on the converter PC board is open circuited or short circuited.
- 5) Check if the conductor pattern on the finisher controller PC board is open circuited or short circuited.
- 6) Try to update the finisher firmware again.
- 7) Replace the converter PC board.
- 8) Replace the finisher control PC board.

### MJ-1101 (when MJ-6101 is connected)

- 1) Is the error recovered when the power of the equipment is turned OFF and then back ON?
- 2) Check if the MJ-1101 (08-1912) is set as the specified finisher on the equipment.
- 3) Check if the harness connecting the converter PC board and the finisher controller PC board is disconnected or open circuited.
- 4) Check if the harness connecting the hole punch control PC board and the finisher control PC board is disconnected or open circuited.
- 5) Check if the conductor pattern on the converter PC board is open circuited or short circuited.
- 6) Check if the conductor pattern on the finisher controller PC board is open circuited or short circuited.
- 7) Check if the conductor pattern on the hole punch control PC board is open circuited or short circuited.
- 8) Try to update the finisher firmware again.
- 9) Replace the converter PC board.
- 10) Replace the finisher control PC board.
- 11) Replace the hole punch control PC board.

## 5.1.15 Service call for others

### [C940] Engine-CPU is abnormal

Is the "Call for Service" displayed even after the power is turned OFF and back ON?

↓ NO → Leave it and see what happens.

YES

- 1) Check if the circuit pattern between the Engine-CPU and FROM is short circuited or open circuited.
- 2) Replace the LGC board if this error occurs frequently.

### [C970] High-voltage transformer abnormality

- (1) Is the main charger installed securely?
- (2) Check if the spring of high-voltage supply contact point is deformed.
- (3) Check if the charger wire is broken or the main charger grid is deformed.
- (4) Check if any foreign matters are on the charger wire or main charger grid.
- (5) Is the transfer/separation charger installed securely?
- (6) Check if the transfer/separation charger wire is broken or unhooked.
- (7) Check if any foreign matter is on the transfer/separation charger wire.

### [CDF0] Initialize error of the offset tray

- (1) Check if each connector between the OCT motor and OCT board (CN261) is disconnected.
- (2) Check if each connector between the OCT board (CN261) and LGC board (CN302) is disconnected.
- (3) Check if each connector pin is removed or the harness is broken.
- (4) Check if any conductor pattern on the OCT board and LGC board is short circuited or open circuited.
- (5) Replace the OCT motor.
- (6) Replace the OCT board.
- (7) Replace the LGC board.

### [F090] SRAM abnormality on the SYS board

- (1) Turn the power OFF and start up the Setting Mode (08).
- (2) When the message "SRAM ERROR DOES IT INITIALIZE?" is displayed on the LCD, press [INITIALIZE]. (SRAM is cleared.)
- (3) Turn the power OFF and then back ON. If the error is not recovered, replace the SYS board.

### **[F091] NVRAM abnormality on the SYS board**

- (1) Turn the power OFF and start up with the Setting Mode (08).
- (2) When "NVRAM ERROR DOES IT INITIALIZE" is displayed on the LCD, check the destination and then press the [START] button. If the destination is not correct, key in the correct one and then press the [START] button.
- (3) After the confirmation message is displayed, press the [INTERRUPT] button.
- (4) Perform the panel calibration (08-692).
- (5) Perform the initialization at the software version upgrade (08-947).
- (6) Perform the counter copying (08-257 Sub-code: 1).
- (7) Initialize the NIC information (08-693).
- (8) Enter the serial number (08-995). The serial number on the label attached to the rear cover of the equipment.
- (9) Turn the power OFF and then start up with the Adjustment mode (05).
- (10) Perform "Data transfer of characteristic value of scanner" (05-364).
- (11) Turn the power OFF and then back ON. If the error is not recovered, replace the NVRAM on the SYS board.

### **[F092] SRAM/NVRAM abnormality on the SYS board**

- (1) Turn the power OFF and start up with the Setting Mode (08).
- (2) When "NVRAM/SRAM ERROR DOES IT INITIALIZE" is displayed on the LCD, check the destination and then press the [START] button. If the destination is not correct, key in the correct one and then press the [START] button.
- (3) After the confirmation message is displayed, press the [INTERRUPT] button.
- (4) Perform the panel calibration (08-692).
- (5) Perform the initialization at the software version upgrade (08-947).
- (6) Perform the counter copying (08-257 Sub-code: 1).
- (7) Initialize the NIC information (08-693).
- (8) Enter the serial number (08-995). The serial number on the label attached to the rear cover of the equipment.
- (9) Turn the power OFF and then start up with the Adjustment mode (05).
- (10) Perform "Data transfer of characteristic value of scanner" (05-364).
- (11) Turn the power OFF and then back ON. If the error is not recovered, replace the NVRAM on the SYS board.

### **[F100] HDD format error**

- (1) Check if the HDD is mounted.
- (2) Check if the specified HDD is mounted.
- (3) Check if the connector pins of the HDD are bent.
- (4) Check if the power supply connector is disconnected.
- (5) Check if the connector J111 on the SYS board is disconnected.
- (6) Replace the harness.
- (7) Initialize the HDD. (Key in "2" at 08-690.)
- (8) Replace the HDD.
- (9) Replace the SYS board.



**[F101] HDD unmounted****[F102] HDD start error****[F103] HDD transfer time-out****[F104] HDD CRC error****[F105] HDD other error**

- (1) Check if the connectors of the HDD are disconnected.
- (2) Check if the connector pins are disconnected or the wires of harnesses are broken.
- (3) Perform the bad sector check (08-694). If the check result is OK, recover the data in the HDD. If the check result is failed, replace the HDD.
- (4) Replace the SYS board.

**[F106] Point and Print partition damage**

- (1) Turn the power OFF and start up the Setting Mode (08).
- (2) Key in "662" and press the [START] button. (Partition clearing is performed.)
- (3) Restart the equipment.
- (4) Access TopAccess. Click the [Administration] tab, and then click the Maintenance Menu to open. Then install the "Point and Print" driver.

**[F107] / SHR partition damage**

Initialize the Electronic Filing using the Setting Mode (08-666).

**[F108] /SHA partition damage**

Initialize the shared folder using the Setting Mode (08-667).

**[F120] Database abnormality**

- (1) Rebuild the databases. (Perform 08-684.)
- (2) If the error is not recovered, initialize the HDD. (Key in "2" at 08-690.)

**[F130] Invalid MAC address (e-STUDIO352/353/452/453)**

Compare the serial number of the equipment with a number displayed in 08-995. If they are different, enter the correct serial number at 08-995.

**[F200] Data overwrite kit (GP-1050) is taken off (e-STUDIO350/450)**

Clear the service call "F200". (Key in "0" at 08-633.)


- \* When the Data overwrite kit (GP-1050) is removed from the equipment, the service call "F200" occurs.

**[F200] Data overwrite kit (GP-1060) is taken off (e-STUDIO352/353/452/453)**

Check the system ROM version (08-900) since the countermeasure to be taken varies.

**T364SY0\*329 or later** (\* represents a letter of the alphabet corresponding to the destination.)

Download the system firmware again.

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**Earlier than T364SY0\*329** (\* represents a letter of the alphabet corresponding to the destination.)

Clear the service call "F200". (Key in "0" at 08-633.)

- \* When the Data overwrite kit (GP-1060) is removed from the equipment, the service call "F200" occurs.

## 5.1.16 Error in Internet FAX / Scanning Function

### Notes:

1. When initializing the Electronic Filing (Setting Mode (08-666)), all data in the Electronic Filing are erased. Back up the data in the Electronic Filing by using the Electronic Filing Function of TopAccess before the initialization.
2. When initializing the shared folder (Setting Mode (08-667)), all data in the shared folder are erased. Back up the data in the shared folder by using Explorer before the initialization.
3. When formatting the HDD (Setting Mode (08-690)), all data in the shared folder, Electronic Filing, Address Book, template, etc. are erased. Back up these data before the initialization. Note that some of data cannot be backed up (Page 5-1).

### [ 1 ] Internet FAX related error

(When GM-1010/3010, GM-2010, GM-1060/4060, GM-2060, GM-1061/4060, GM-2061, GM-1120/4120, or GM-2120 is installed)

#### [1C10] System access abnormality

#### [1C32] File deletion failure

Turn the power OFF and then back ON. Perform the job in error again.

If the error still occurs, first, check if there are no jobs existing and then perform the HDD formatting (08-690).

#### [1C11] Insufficient memory

When there are running jobs, perform the job in error again after the completion of the running jobs.

If the error still occurs, turn the power OFF and then back ON, and perform the job again.

#### [1C12] Message reception error

#### [1C13] Message transmission error

Turn the power OFF and then back ON. Perform the job in error again.

#### [1C14] Invalid parameter

When a template is used, form the template again.

If the error still occurs, turn the power OFF and then back ON, and perform the job again.

#### [1C15] Exceeding file capacity

Reset and extend the "Maximum send to E-mail/iFAX size" or reduce the number of pages and perform the job again.

#### [1C20] System management module access abnormality

#### [1C21] Job control module access abnormality

#### [1C22] Job control module access abnormality

Turn the power OFF and then back ON. Perform the job in error again.

Check if there are no other running jobs and perform the HDD formatting (08-690).

If the recovery is still not completed, replace the SYS board.

**[1C30] Directory creation failure**

**[1C31] File creation failure**

**[1C33] File access failure**

Check if the access privilege to the storage directory is writable.

Check if the server or local disk has a sufficient space in disk capacity.

**[1C40] Image conversion abnormality**

Turn the power OFF and then back ON. Perform the job in error again.

Replace the main memory and perform the job again.

**[1C60] HDD full failure during processing**

Reduce the number of pages of the job in error and perform the job again.

Check if the server or local disk has a sufficient space in disk capacity.

**[1C61] Address Book reading failure**

Turn the power OFF and then back ON. Perform the job in error again.

Reset the data in the Address Book and perform the job again.

**[1C62] Memory acquiring failure**

Check if there is any job being performed and perform the job in error again.

Turn the power OFF and then back ON. Perform the job in error again.

Replace the main memory and perform the job again.

**[1C63] Terminal IP address unset**

Reset the Terminal IP address.

Turn the power OFF and then back ON. Perform the job in error again.

**[1C64] Terminal mail address unset**

Reset the Terminal mail address.

Turn the power OFF and then back ON. Perform the job in error again.

**[1C65] SMTP address unset**

Reset the SMTP address and perform the job.

Turn the power OFF and then back ON. Perform the job in error again.

**[1C66] Server time-out error**

Check if the SMTP server is operating properly.

**[1C67] NIC time-out error**

**[1C68] NIC access error**

**[1C6D] System error**

Turn the power OFF and then back ON. Perform the job in error again.

If the error still occurs, replace the NIC board.

**[1C69] SMTP server connection error**

Reset the login name or password of SMTP server and perform the job again.  
Check if the SMTP server is operating properly.

**[1C6A] HOST NAME error**

Check if there is an illegal character in the device name.  
Delete the illegal character and reset the appropriate device name.

**[1C6B] Terminal mail address error**

Check if the SMTP authentication method is correct.  
Check if there are any illegal characters in the Terminal mail address.  
Select the correct SMTP authentication method. Delete the illegal characters and reset the mail address. Then try again.

**[1C6C] Destination mail address error**

Check if there is an illegal character in the Destination mail address.  
Delete the illegal character and reset the appropriate Destination mail address, then perform the job again.

**[1C70] SMTP client OFF**

Set the SMTP valid and perform the job again.

**[1C71] SMTP authentication ERROR**

Check that SMTP authentication method, login name and password are correct, then perform authentication again.

**[1C72] POP Before SMTP ERROR**

Check that both the POP Before SMTP setting and POP3 setting are correct, then perform authentication again.

**[1C80] Internet FAX transmission failure when processing E-mail job received**

Reset the "Received InternetFax Forward".

**[1C81] Onramp Gateway transmission failure**

Reset the mail box.

**[1C82] Internet FAX transmission failure when processing FAX job received**

Reset the "Received Fax Forward".

**[1CC1] Power failure**

Check if the power cable is connected properly and it is inserted securely.  
Check if the power voltage is unstable.

## **[ 2 ] RFC related error**

(When GM-1010/3010, GM-2010, GM-1060/4060, GM-2060, GM-1061/4060, GM-2061, GM-1120/4120, or GM-2120 is installed)

**[2500] HOST NAME error (RFC: 500) / Destination mail address error (RFC: 500) / Terminal mail address error (RFC: 500)**

**[2501] HOST NAME error (RFC: 501) / Destination mail address error (RFC: 501) / Terminal mail address error (RFC: 501)**

Check if the Terminal mail address and Destination mail address are correct.

Check if the mail server is operating properly.

Turn the power OFF and then back ON. Perform the job in error again.

**[2503] Destination mail address error (RFC: 503)**

**[2504] HOST NAME error (RFC: 504)**

**[2551] Destination mail address error (RFC: 551)**

Check if the mail server is operating properly.

Turn the power OFF and then back ON. Perform the job in error again.

If the error still occurs, replace the NIC board.

**[2550] Destination mail address error (RFC: 550)**

Check the state of the mail box in the mail server.

**[2552] Terminal/Destination mail address error (RFC: 552)**

Check the capacity of the mail box in the mail server.

Select "Text" of the original modes for the original data or lower the resolution level and then retransmit.

Or divide the original data into several pieces and retransmit them.

**[2553] Destination mail address error (RFC: 553)**

Check if there is an illegal character in the mail box in the mail server.

### [ 3 ] Electronic Filing related error

**[2B10] No applicable job error in Job control module**

**[2B11] JOB status abnormality**

**[2B20] File library function error**

**[2B30] Insufficient disk space in /SHR partition**

**[2BC0] Fatal failure occurred**

**[2BC1] System management module resource acquiring failure**

Erase some data in the Electronic Filing and perform the job in error again (in case of [2B30]).

Turn the power OFF and then back ON. Perform the job in error again.

Check if there are no other running jobs and perform the HDD formatting (08-690).

If the recovery is still not completed, replace the SYS board.

### **[2B21] Exceeding file capacity**

Reset and extend the "Maximum send to E-mail/iFAX size" or reduce the number of pages and perform the job again.

### **[2B50] Image library error**

**[2B90] Insufficient memory capacity**

Turn the power OFF and then back ON. Perform the job in error again.

If the error still occurs, replace the main memory.

Perform the job in error again.

Check if there are no other running jobs and initialize the Electronic Filing using the Setting Mode (08-666).

### **[2B31] Status of specified Electronic Filing or folder is undefined or being created/deleted**

Check if the specified Electronic Filing or folder exists. (If no, this error would not occur.)

Delete the specified Electronic Filing or folder.

Perform the job in error again.

If the specified Electronic Filing or folder can not be deleted, initialize the Electronic Filing using the Setting Mode (08-666).

### **[2B32] Electronic Filing printing failure: Specified document can not be printed because of client's access (being edited, etc.)**

Check if the specified document exists. (If no, this error would not occur.)

Delete the specified document.

Perform the job in error again.

If the specified document can not be deleted, initialize the Electronic Filing using the Setting Mode (08-666).

### **[2B51] List library error**

Check if the Function List can be printed out.

If it can be printed out, perform the job in error again.

If it can not be printed out, replace the main memory.

If the recovery is still not completed, perform the HDD formatting (08-690).

**[2BA0] Invalid Box password**

Check if the password is correct.

Reset the password.

When this error occurs when printing the data in the Electronic Filing, perform the printing with the administrator's password.

If the recovery is still not completed or in case of invalid password for the operation other than printing (opening the file, etc.), initialize the Electronic Filing using the Setting Mode (08-666).

**[2BA1] A paper size not supported in the Electronic Filing function is being selected.**

Check the paper size.

**[2BB1] Power failure****[2BD0] Power failure occurred during restoring of Electronic Filing**

Check if the power cable is connected properly and it is inserted securely.

Check if the power voltage is unstable.

**[2BE0] Machine parameter reading error**

Turn the power OFF and then back ON. Perform the job in error again.

**[2BF0] Exceeding maximum number of pages**

Reduce the number of inserting pages and perform the job again.

**[2BF1] Exceeding maximum number of documents**

Backup the documents in the box or folder to PC or delete them.

**[2BF2] Exceeding maximum number of folders**

Backup the folders in the box or folder to PC or delete them.



#### **[ 4 ] E-mail related error**

(When GM-1010/3010, GM-2010, GM-1060/4060, GM-2060, GM-1061/4060, GM-2061, GM-1120/4120, or GM-2120 is installed)

##### **[2C10] System access abnormality**

##### **[2C32] File deletion failure**

Turn the power OFF and then back ON. Perform the job in error again.

If the error still occurs, first, check if there are no jobs existing and then perform the HDD formatting (08-690).

##### **[2C11] Insufficient memory**

When there are running jobs, perform the job in error again after the completion of the running jobs.

If the error still occurs, turn the power OFF and then back ON, and perform the job again.

##### **[2C12] Message reception error**

##### **[2C13] Message transmission error**

Turn the power OFF and then back ON. Perform the job in error again.

##### **[2C14] Invalid parameter**

When a template is used, form the template again.

If the error still occurs, turn the power OFF and then back ON, and perform the job again.

##### **[2C15] Exceeding file capacity**

Reset and extend the "Message size limitation" or reduce the number of pages and perform the job again.

##### **[2C20] System management module access abnormality**

##### **[2C21] Job control module access abnormality**

##### **[2C22] Job control module access abnormality**

Turn the power OFF and then back ON. Perform the job in error again.

Check if there are no other running jobs and perform the HDD formatting (08-690).

If the recovery is still not completed, replace the SYS board.

##### **[2C30] Directory creation failure**

##### **[2C31] File creation failure**

##### **[2C33] File access failure**

Check if the access privilege to the storage directory is writable.

Check if the server or local disk has a sufficient space in disk capacity.

##### **[2C40] Image conversion abnormality**

##### **[2C62] Memory acquiring failure**

Turn the power OFF and then back ON. Perform the job in error again.

Replace the main memory and perform the job again.

##### **[2C43] Encryption error**

Turn the power OFF and then back ON. Perform the job in error again.

**[2C44] Encryption PDF enforced mode error**

Reset the encryption and perform the job in error again.

If an image file not encrypted is created, consult your administrators.

**[2C60] HDD full failure during processing**

Reduce the number of pages of the job in error and perform the job again.

Check if the server or local disk has a sufficient space in disk capacity.

**[2C61] Address Book reading failure**

Turn the power OFF and then back ON. Perform the job in error again.

Reset the data in the Address Book and perform the job again.

**[2C63] Terminal IP address unset**

Reset the Terminal IP address.

Turn the power OFF and then back ON. Perform the job in error again.

**[2C64] Terminal mail address unset**

Reset the Terminal mail address.

Turn the power OFF and then back ON. Perform the job in error again.

**[2C65] SMTP address unset**

Reset the SMTP address and perform the job.

Turn the power OFF and then back ON. Perform the job in error again.

**[2C66] Server time-out error**

Check if the SMTP server is operating properly.

**[2C67] NIC time-out error****[2C68] NIC access error****[2C6D] System error**

Turn the power OFF and then back ON. Perform the job in error again.

If the error still occurs, replace the NIC board.

**[2C69] SMTP server connection error**

Reset the login name and password of SMTP server and perform the job again.

Check if the SMTP server is operating properly.

**[2C6A] HOST NAME error (No RFC error)**

Check if there is an illegal character in the device name.

Delete the illegal character and reset the appropriate device name.

**[2C6B] Terminal mail address error**

Check if the SMTP authentication method is correct.

Check if there are any illegal characters in the Terminal mail address.

Select the correct SMTP authentication method. Delete the illegal characters and reset the mail address. Then try again.

**[2C6C] Destination mail address error (No RFC error)**

Check if there is an illegal character in the Destination mail address.

Delete the illegal character and reset the appropriate Destination mail address, then perform the job again.

**[2C70] SMTP client OFF**

Set the SMTP valid and perform the job again.

**[2C71] SMTP authentication ERROR**

Check that SMTP authentication method, login name and password are correct, then perform authentication again.

**[2C72] POP Before SMTP ERROR**

Check that both the POP Before SMTP setting and POP3 setting are correct, then perform authentication again.

**[2C80] E-mail transmission failure when processing E-mail job received**

Reset the "Received InternetFax Forward".

**[2C81] Process failure of FAX job received**

Reset the setting of the mail box or "Received InternetFax Forward".

**[2CC1] Power failure**

Check if the power cable is connected properly and it is inserted securely.

Check if the power voltage is unstable.

## **[ 5 ] File sharing related error**

(When GM-1010/3010, GM-2010, GM-1060/4060, GM-2060, GM-1061/4060, GM-2061, GM-1120/4120, or GM-2120 is installed)

### **[2D10] System access abnormality**

#### **[2D32] File deletion failure**

#### **[2DA6] File deletion failure**

#### **[2DA7] Resource acquiring failure**

Delete some files in the shared folder by using Explorer because of automatic/manual file deletion failure (in case of [2DA6])

Turn the power OFF and then back ON. Perform the job in error again.

If the error still occurs, first, check if there are no jobs existing and then perform the HDD formatting (08-690).

### **[2D11] Insufficient memory**

When there are running jobs, perform the job in error again after the completion of the running jobs.

If the error still occurs, turn the power OFF and then back ON, and perform the job again.

### **[2D12] Message reception error**

#### **[2D13] Message transmission error**

Turn the power OFF and then back ON. Perform the job in error again.

### **[2D14] [2D61] Invalid parameter**

When a template is used, form the template again.

If the error still occurs, turn the power OFF and then back ON, and perform the job again.

### **[2D15] Exceeding document number**

Delete some documents in the folder, and then perform the job in error again.

### **[2D20] System management module access abnormality**

#### **[2D21] Job control module access abnormality**

#### **[2D22] Job control module access abnormality**

#### **[2D60] File library access abnormality**

Delete some files in the shared folder by using Explorer because of automatic/manual file deletion failure (in case of [2DA6])

Turn the power OFF and then back ON. Perform the job in error again.

Check if there are no other running jobs and perform the HDD formatting (08-690).

If the recovery is still not completed, replace the SYS board.

### **[2D30] Directory creation failure**

#### **[2D31] File creation failure**

#### **[2D33] File access failure**

Check if the access privilege to the storage directory is writable.

Check if the server or local disk has a sufficient space in disk capacity.

**[2D40] Image conversion abnormality**

Turn the power OFF and then back ON. Perform the job in error again.

Replace the main memory and perform the job again.

If the error still occurs, first, check if there are no jobs existing and then initialize the shared folder using the Setting Mode (08-667).

**[2D43] Encryption error**

Turn the power OFF and then back ON. Perform the job in error again.

**[2D44] Encryption PDF enforced mode error**

Reset the encryption and perform the job in error again.

If an image file not encrypted is created, consult your administrators.

**[2D62] File server connection error**

Check the IP address or path of the server.

Check if the server is operating properly.

**[2D63] Invalid network path**

Check the network path.

If the path is correct, turn the power OFF and then back ON, and perform the job again.

**[2D64] Login failure**

Reset the login name and password. Perform the job.

Check if the account of the server is properly set up.

**[2D65] Exceeding documents in folder: Creating new document is failed**

Delete some documents in the folder.

**[2D66] HDD full failure during processing**

Reduce the number of pages of the job in error and perform the job again.

Check if the server or local disk has a sufficient space in disk capacity.

**[2D67] FTP service not available**

Check if the setting of FTP service is valid.

**[2D68] File sharing service not available**

Check if the setting of SMB is valid.

**[2DC1] Power failure**

Check if the power cable is connected properly and it is inserted securely.

Check if the power voltage is unstable.

## **[ 6 ] E-mail reception related error**

(When GM-1010/3010, GM-2010, GM-1060/4060, GM-2060, GM-1061/4060, GM-2061, GM-1120/4120, or GM-2120 is installed)

### **[3A10] [3A11] [3A12] E-mail MIME error**

The format of the mail is not corresponding to MIME 1.0.

Request the sender to retransmit the mail in the format corresponding to MIME 1.0.

### **[3A20] [3A21] [3A22] E-mail analysis error**

### **[3B10] [3B11] [3B12] E-mail format error**

### **[3B40] [3B41] [3B42] E-mail decode error**

These errors occur when the mail data is damaged from the transmission to the reception of the mail.

Request the sender to retransmit the mail.

### **[3A30] Partial mail time-out error**

The partial mail is not received in a specified period of time.

Request the sender to retransmit the partial mail, or set the time-out period of the partial mail longer.

### **[3A40] Partial mail related error**

The format of the partial mail is not corresponding to this equipment.

Request the sender to remake and retransmit the partial mail in RFC2046 format.

### **[3A50] [3A51] [3A52] Insufficient HDD capacity error**

### **[3A60] [3A61] [3A62] Warning of insufficient HDD capacity**

These errors occur when the HDD capacity is not sufficient for a temporary concentration of the jobs, etc.

Request the sender to retransmit after a certain period of time, or divide the mail into more than one.

Insufficient HDD capacity error also occurs when printing is disabled for no printing paper.

In this case, supply the printing paper.

### **[3A70] Warning of partial mail interruption**

This error occurs when the partial mail reception setting becomes OFF during the partial mail reception.

Reset the partial mail reception setting ON and then request the sender to retransmit the mail.

### **[3A80] [3A81] [3A82] Partial mail reception setting OFF**

Reset the partial mail reception setting ON and then request the sender to retransmit the mail.

### **[3B20] [3B21] [3B22] Content-Type error**

The format of the attached file is not supported by this equipment (TIFF-FX).

Request the sender to retransmit the file in TIFF-FX.

### **[3B30] [3B31] [3B32] Charset error**

These errors occur when the standard of the Charset is other than ISO-8559-1 or ISO-8559-2.

Request the sender to reformat the Charset into either of the standards described above and then retransmit the mail.

**[3C10] [3C11] [3C12] [3C13] TIFF analysis error**

These errors occur when the mail data is damaged from the transmission to the reception of the mail, or when the format of the attached file is not supported by this equipment (TIFF-FX).  
Request the sender to retransmit the mail.

**[3C20] [3C21] [3C22] TIFF compression error**

The compression method of the TIFF file is not acceptable for this equipment. (Acceptable: MH/MR/MMR/JBIG)  
Request the sender to retransmit the file in the acceptable compression method.

**[3C30] [3C31] [3C32] TIFF resolution error**

The resolution of the TIFF file is not acceptable for this equipment. (Acceptable: 200 x 100, 200 x 200, 200 x 400, 400 x 400, 300 x 300 or equivalent)  
Request the sender to retransmit the file in the acceptable resolution.

**[3C40] [3C41] [3C42] TIFF paper size error**

The paper size of the TIFF file is not acceptable for this equipment. (Acceptable: A4, B4, A3, B5, LT, LG, LD or ST)  
Request the sender to retransmit the file in the acceptable paper size.

**[3C50] [3C51] [3C52] Offramp destination error**

These errors occur when the FAX number of the offramp destination is incorrect.  
Request the sender to correct the FAX number of offramp destination and then retransmit the mail.

**[3C60] [3C61] [3C62] Offramp security error**

These errors occur when the FAX number of the offramp destination is not on the Address Book.  
Check if the FAX number of the offramp destination is correctly entered or the number has not been changed.

**[3C70] Power failure error**

Check if the mail is recovered after turning ON the power again.  
Request the sender to retransmit the mail if it is not recovered.

**[3D10] Destination address error**

Check if the setting of the server or DNS is correct. Correct if any of the setting is incorrect.  
When the content of the setting is correct, confirm the sender if the destination is correct.

**[3D20] Offramp destination limitation error**

Inform the sender that the transfer of the FAX data over 40 is not supported.

**[3D30] FAX board error**

This error occurs when the FAX board is not installed or the FAX board has an abnormality.  
Check if the FAX board is correctly connected.

**[3E10] POP3 server connection error**

Check if the IP address or domain name of the POP3 server set for this equipment is correct, or check if POP3 server to be connected is operating properly.

**[3E20] POP3 server connection time-out error**

Check if POP3 server to be connected is operating properly.  
Check if the LAN cable is correctly connected.

**[3E30] POP3 login error**

Check if the POP3 server login name and password set for this equipment are correct.

**[3E40] POP3 Login Type ERROR**

Check that the login type (Auto, POP3 or APOP) to the POP3 server is correct.

**[3F00] [3F10] [3F20] [3F30] [3F40] File I/O error**

These errors occur when the mail data is not transferred properly to the HDD.  
Request the sender to retransmit the mail.  
Replace the HDD if the error still occurs after retransmission.

**[4030] No printer kit/Invalid**

Install the print kit and perform the job again.  
Install the Expansion Memory (GC-1230) and perform the job again.  
Register it officially and perform the job again.

**[4031] HDD full failure during printing**

Reduce the number of pages of the job in error and perform the job again.  
Check if the server or local disk has a sufficient space in disk capacity.

**[4032] Private-print-only error**

Select "Print", and then perform the printing again.

**[4033] Printing data storing limitation error**

Select "Print", and then perform the printing again.

**[4034] e-Filing storing limitation error**

Select "Print", and then perform the printing again.

**[4035] Local file storing limitation error**

Select "Remote" (SMB/FTP) for the destination of the file to save.

**[4036] User authentication error**

Perform the authentication or register as a user, and then perform the printing again.



**[A221] Print job cancellation**

This message appears when deleting the job on the screen.

**[A222] Print job power failure**

When there are running jobs, perform the job in error again after the completion of the running jobs. If the error still occurs, turn the power OFF and then back ON, and perform the job again.

**[A290] Limit over error****[A291] Limit over error****[A292] Limit over error**

Clear the limit counter.

## 5.1.17 Image control related service call

**[CE50] Temperature/humidity sensor abnormality**

Is the connector CN317 on the LGC board or the connector of the temperature/humidity sensor disconnected?

Is the harness between the LGC board and the temperature/humidity sensor disconnected?

↓ YES→ Connect the connector securely. Replace the harness.

NO

- 1) Replace the temperature/humidity sensor.
- 2) Replace the LGC board.