SHARP SERVICE MANUAL

CODE: 00ZSF2540FM/E

No.1

SF-2540 SF-D23/D24 MODEL SF-DM11

[Note] The SF-2540 is a minor change model of the SF-2040. This Service Manual omits descriptions common with the SF-2040, and describes only the different points of the SF-2540. For the different points, refer to the list of changes between the SF-2040 and the SF-2540.

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[2]	PRODUCT SPECIFICATIONS
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Parts marked with " \wedge " is important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

List of changes between the SF-2040 and the SF-2540

No.			SF2040	SF2540	Domark
NU.	Page	Item	Content	Change	Remark
	I	CONTENTS	[3] OPTIONS SPECIFICATION 1. SF-A55 2. SF-S15 3. SF-S53 4. SF-D23 5. Others	 SF-A55 is changed to SF-A58. SF-S53 is changed to SF-S56. SF-D23 is changed to SF-D24. 	
	II	CONTENTS	[4] COMPONENT IDENTIFICATION 9. Desk unit (SF-D23) [5] INSTALLATION A. Installing conditions B. Installation procedure (1) SF-2040	(SF-D23) is changed to (SF-D23/D24). (1) SF-2040 is changed to SF-2540.	
	III	CONTENTS	(2) SF-A55	(2) SF-A55 is changed to SF-A58.(3) SF-S53 is changed to SF-S56.(5) SF-D23 is changed to SF-D23/D24.	
	1-1	[1]-1	1. General description The SF-2040	"The SF-2040" is changed to "The SF-2540."	
		[1]-4	1/bin staple sorter (SF-S53)	The model name and the illustration are changed. The model name and the illustration are	
			Reversing automatic document feeder (SF-A55)	I he model name and the illustration are changed.	
				• SF-D24 is added. 500 (500) One-step paper feed unit (SF-D24)	

		SF2040			SF2	2540		Remark
Page	Item	Conte	nt		Cha	ange		Roman
2-1	[2]-(3)	Original replace speed: 40 st Weight of original: 35 to Mixed paper			speed of China Actual (1:1) ?? sheets per minute			-
	Tol (7)	(5)))		16K 16KR	?? sheets per minute ?? sheets per minute	(200%) ?? sheets per minute (200%) ?? sheets per minute (200%)	(50%) ?? sheets per minute (50%) ?? sheets per minute (50%)	
2-2	[2]-(5) [2]-10	(5) Warm up time AB series		AB ser	to power shut	off : YES" IS	added.	
		Upper cassette (Option) A4/A-Lower cassette A5/B-A4/A-	Paper size 5/R 4R/B4/A3 5/B5/R 4R/B4/A3 With the option ~		r and 13" are per/lower cass			
		Upper cassette (Option) Lega Lower cassette Lette Lega Invoice	per feed size //Letter R/ //Ledger //Letter R/ //Ledger/ ce With the option ~		nd 13" are add r/lower casset		per size of	
2-3	[2]-19	Size AB series: AB series: L Inch series: L Capacity 5 Paper weight 5	Copier upper module slot 13, B4, A4R, B5, B5R, A5 edger, Legal, Letter, etter R 0 sheets (below A4 or etter size) 6 to 80 g/m² (15 to 21 os)	-	added to the i	nch series.		
	[2]-(20)	(20) Paper receive tray as	d finishing	• SF- • The	name change S53 is change capacity of n n 250 sheets t	ed to SF-S56 on-sort bin is	changed	

No.			SF2040	SF2540	Remark
INO.	Page	Item	Content	Change	Kemark
	2-5	[2]-25	SF2040		

[2] 20	(25) Acces	sories						
Destination	Japan	SEC	SECL	SEEG	SUK	SCA	AB agent	Inch agent
Drum	Installed	Installed	Installed	Separately	Separately	Installed	Partly	Partly
	when	when	when	packed.	packed.	when	packed.	packed.
	shipping.	shipping.	shipping.		·	shipping.		
Developer (Black)	0	X	X	X	×	X	×	×
Toner cartridge	0	×	×	X	X	X	X	×
Original cover	Standard	Option	Option	Option	Option	Option	Standard	provision
-	provision				-			
Paper exit tray 1 *1				C)		•	
Original table	×			0			,	×
Toner collection			0 (4)	pcs.) One is insta	alled when ship	oping.		
container								
Operation manual	Japanese	Exclusive	English	GG: German	Exclusive	English	English	English
		English	/French	BG: None	English		/French	/Spanish
							/Arabic	Typical
							Typical	example
							example	
Dust cover	0			×			O (F	Part)
Zooming ratio table				C)			
ROM language	Japanese	English	English	GG: German	English	English	English/Fre	nch/Spanish
				BG: None			dependi	ng on the
							destir	nation.
Key sheet	Japanese	English	English	GG: German	English	English	English,	English,
			/French	BG: None			partly	partly
							Spanish	Spanish
		0.51	- "	nch packed toge	OFFO (D	O) T : 1:	1.74	

Delivery/installation report (Japan/SEEG), SCA warranty, Warranty registration (SUK), Maintenance card, Counter contract × 2 (Japan)

*1: Retractable (Japan), Fixed (Outside Japan)

SF-2540 accessory (The changed items are in **Gothic**.) (25) Accessory

Destination	Japan	SEC	SECL	SEEG	SUK	SCA	AB agents	Inch agents	China
Drum (* 2)	Installed	Installed	Installed	Installed	Installed	Installed	Installed	Installed	Installed
	when	when	when	when	when	when	when	when	when
	shipping	shipping	shipping	shipping	shipping	shipping	shipping	shipping	shipping
Developer (Black)		X	X	×	×	X	X	×	0
Toner cartridge		X	X	×	×	X	X	×	0
Original cover	Standard provision	Option	Option	Option	Option	Option	(LAG	option)	Standare provision
Paper exit tray (*1)									0
Document table	×						(LAG pa	ackage)	0
Toner collection bottle			2	pcs (One is inst	alled when s	shipping.)			0
Operation Manual	Japanese	Special English	English /French	GG: German BG: None	Special English	English	English /French /Arabic Typical example	English /Spanish Typical example	China
Dust cover				×				ı art	X
Magnification ratio	0				X				X
Language ROM	Japanese	English	English	GG: German/ English BG: English	English	English	Spanish depe	/French/ ending on the nation	China
Key sheet conformity	Japanese	English	English/ French	GG: German/ English BG: None attached	English	English	English/ Spanish (Some area)	English/ Spanish (Some area)	Chinese
		SEL	= English/F	rench packed to	gether. SEE	G (BG) = Tr	eated in a kit.		
Other printed matte Installation manual Warranty registration Maintenance cont	(Japan, Deli on (SUK), Ma	very report	Japan/SEI	EG), SCA Warrar ter contract × 2 st	nty neets (Japai	,			

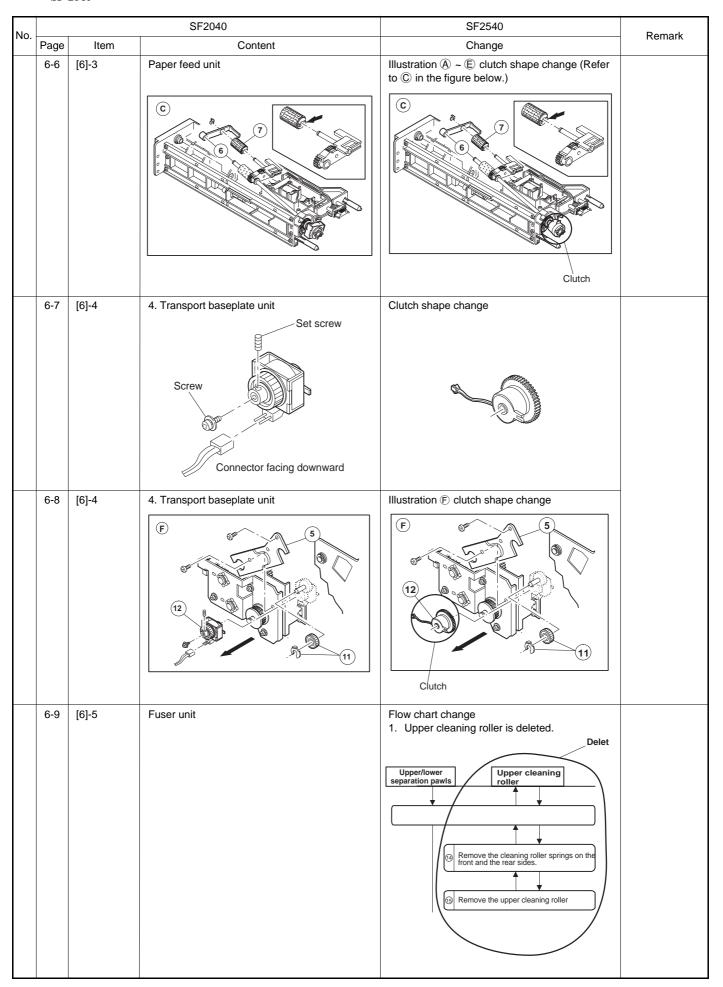
★1: Extendable for Japan, fixed for EX japan.

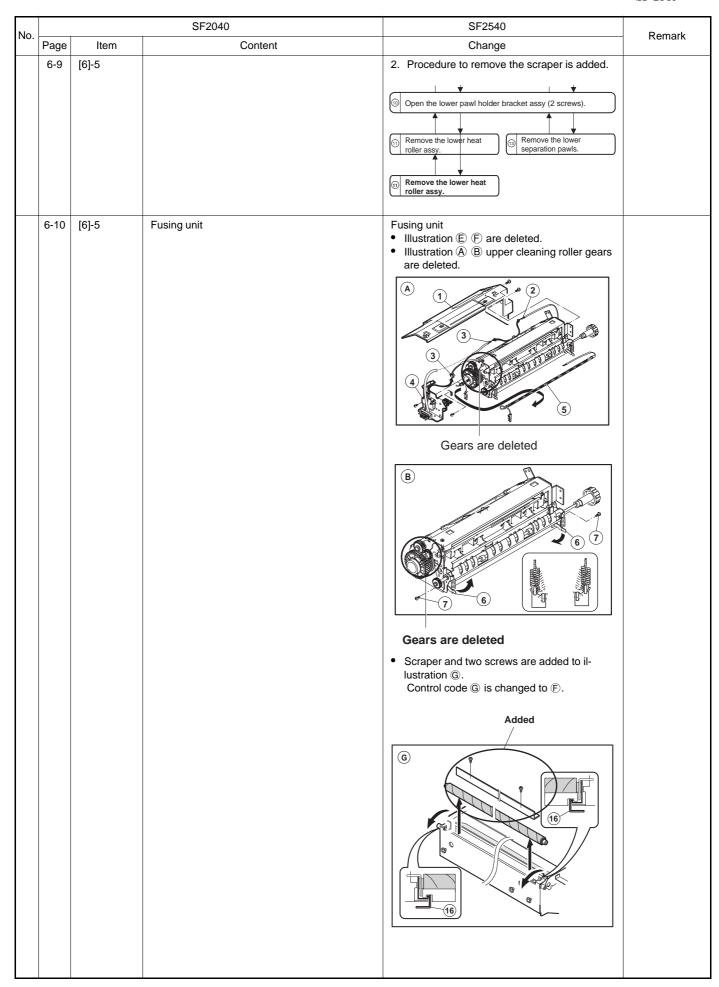
*2: For SEEG/SUK, installed when shipping only for SOCC production. (In Japan production, separately packed.)

No.			SF2040	SF2540	Domonic
۱U.	Page	Item	Content	Change	Remark
	2-5 2-6	[2]-2	Consumables	Consumables change (Refer to the separate sheet.) SF-2540 Supply system (SEC) SF-2540 Supply system (SECL, agents) SF-2540 Supply system (SEEG, SUK, SCA, SCNZ)	Refer to the attached sheet 2-5, 2-6.
	3-1	[3]	[3] OPTIONS SPECIFICATIONS 1. SF-A55 3. SF-S53	Model change (Refer to the separate sheet.) 1. SF-A55 is changed to SF-A58. 3. SF-S53 is changed to SF-A56.	Refer to the attached sheet 3-1.
	3-2	[3]	[3] OPTIONS SPECIFICATIONS 4. SF-D23	Model added. 4. SF-D24 is added to SF-D23.	
	4-1	[4]-1	1. External view	③ Front cover shape change	
	4-4	[4]-3	Internal view	Illustration No. (26) is deleted. No. (41) is added. List No. (26) Upper cleaning roller is deleted. No. (41) Process mark sensor is added.	
				Padded 1 2 5 6 8 7 3 4 9 10 Deleted 2 5 6 8 7 3 4 9 10 3 6 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	
	4-8	[4]-7	Board list Name Type S Original sensing light emitting PWB Japan G Original sensor light receive PWB Japan	⑤ ⑥ board types are changed. Japan → Common	

NI-			SF2040	SF2540	D '
No.	Page	Item	Content	Change	Remark
	4-10	[4]-9	Desk unit (SF-D23)	Sensors ② ⑤ are added to the desk unit. ③ Paper quantity sensor (DPTD1) ⑤ Paper quantity sensor (DPTD2)	
				20 22 23 23 Added 25 Added 21 24 Added	
	4-11	[4]-9	A. Sensors and switches	A. Sensors and switches ② ③ sensors are added to "A. Sensors and switches" list.	
			Signal name 2 DPTD1 Paper of sensor	me Type Function/ Contact/ Operation output quantity ??? ???	
			(2) DPTD2 Paper of sensor	quantity ??? ??? ???	
	5-2	[5]-B	B. Installation procedure (1) SF-2040	Model name change SF-2040 is changed to SF-2540.	
	5-10	[5]-B-11-(2)	SF-A55	The model name and the illustration are changed due to model change.	
			SF-A58(Packed together)	SF-A58	
-	5-11	[5]-B-11-(2)	4. Connect the ADF tray connector	Illustration change (Refer to the following illustration.)	
			ADF Cover Connectors	Connector Mounting screw	

			SF2040	SF2540	
No.	Page	Item	Content	Change	Remark
	5-11	[5]-B-11-(2)	5. Attach the tray Tray Mounting Screw	Mounting screw	
			6. Set the mode SF-A55 1 SF-D23 4 SF-S15 10	Model name change in the descriptions • SF-S53 is changed to SF-S56. • SF-A55 is changed to SF-A58.	
			SF-S53 10	SF-D24 4 SF-S53 10	
	5-12 ~ 5-18	[5]-B-11-(3)	(3) SF-S53	Model change SF-S53 is changed to SF-S56.	Refer to the separate sheet 5-12 to 5-18.
	5-21	[5]-B-11-(4)	(4) SF-S15 (20-Bin Sorter) 10. Set the mode	Model change and addition SF-S53 is changed to SF-S56. SF-A55 is changed to SF-A56. SF-D24 is added. Changed to SF-S56	
			SF-A55 1 SF-D23 4 SF-S53 10 SF-S15 10	SF-A55 1 SF-D23 4 SF-S53 10 SF-D24 4 SF-S15 10 SF-D24 is added	
	5-29	[5]-B-11-(7)	(7) SF-DM11 9. To check and adjust the matching guide	The following note is added. Enter "0" in SIM 52-3. (All destinations except for SEC/SECL.)	
	6-4	[6]-2	Manual feed multicopy unit C 4 6 8 7	Illustration © spring position change C Spring	





No			SF2040	SF2540	Domark
No.	Page	Item	Content	Change	Remark
	6-12	[6]-6	6. Duplex copy unit	6. Duplex copy unit • Control code € of illustration € is changed to €. Part No. ② is changed to ⑥ and ③ to ⑦. (Refer to the figure below.)	
				F (17)	
				Ilustration (E) is added. (Refer to the figure below.)	
				E 13 15 15	
	6-15		7. Rear frame side major components * DC power PWB identification 100V system 200V system White label Red label	Red label is changed to Pink label. * DC power PWB identification 100V system 200V system White label Red label Pink label	
	6-16	[6]-8	8. Operation panel unit and document size sensor board (light receiver side) Output Description:	8. Operation panel unit and document size sensor board (light receiver side) • No. ① is added to illustration ⓒ (Refer to the figure below.) C C	
	6-21	[6]-9	9. Optical unit	9. Optical unit	
			Copy lamp unit installing position	Copy lamp unit installing position	
				The following description and illustrationa re added.	

No.		SF2040	SF2540	Remark
Page	Item	Content	Change	Remark
6-21	[6]-9		*When the copy lamp unit is pushed to the optical section notch, there must be a clearance of 2mm between No. 2/3 mirror base unit and the optical section notch.	
7-1	[7]-1-(2)	(2) Position Adjustment of Developing Magnet Roller Main Pole	(2) Position Adjustment of Developing Magnet Roller Main Pole The measurement value, 17.7mm, in the description and illustration are changed to 19.1mm. (5) Measure the distance from the mark to the reference plane on which the developer tank is placed. This distance must be 19.1 mm. If not so, loosen setscrew A of the main pole adjusting plate and move the adjusting plate in the arrow direction to obtain the proper distance.	
7-2	[7]-1-(4)	(4) Notes on installing various rollers of the developing unit	 (4) Notes on installing various rollers of the developing unit Part codes of φ8 ring and φ6 ring are changed as follows. (3) When attaching φ8-ring PRNGP0051FCZZ φ8-ring and PRNGP0022FCZZ and φ6-ring PRNGP0050FCZZ to the developing magnet roller, 	

No.			SF2040	SF2540	Remark
Pa	age	Item	Content	Change	Kemark
7	7-2	[7]-1-(4)		The name in the illustration is changed and an addition is made. V-ring Rear Magnet roller (Added) (Added)	
				V-ring \$6 V-ring \$6 Rear Roller S (X2) Changed to Roller SS (X2)	
				V-ring \$6 V-ring \$6 V-ring \$6 Rear Roller MXS Front	
			(5) Notes on applying the developing side seals (front and rear)	 (5) Notes on applying the developing side seals (front and rear) Side seal FN/FR shape change (Refer to the figure below.) 	
				Rear Front	
7-	-23	[7]-6-A	A. Adjustment when installing the machine	 A. Adjustment when installing the machine Procedures (2)(3) below are added. (2) Execute SIM 44-2. Drum mark sensor level adjustment Standard value: 204 ±10 (3) Execute SIM 44-3. Image density sensor level adjustment Standard value: 204 ±10 	
		[7]-6-D	D. Adjustment when replacing the drum (Photoconductor)	 D. Adjustment when replacing the drum (Photoconductor) Adjustment procedure (4) is changed to (5). Adjustment procedure (4) is added. (Refer to the following description.) (4) Execute SIM 44-3. Image density sensor level adjustment Standard value: 204 ±10 	

$\overline{}$		SF2040	SF2540	Domest
Page	Item	Content	Change	Remark
	[7]-6-E	E. Adjustments when replacing the developer and the drum (photoconductor)	E. Adjustments when replacing the developer and the drum (photoconductor) Adjustment procedure (5) is changed to (6). Adjustment procedure (5) is added. (Refer to the following description.) (4) Execute SIM 44-3. Image density sensor level adjustment Standard value: 204 ±10	
8-1 ~ 8-18	[8]	[8] SIMULATION AND DIAGNOSTICS	For [8] SIMULATION AND DIAGNOSTICS, refer to the separate sheet.	Refer to the separate shee 8-1 to 8-8.
9-1	[9]	[9] MAINTENANCE AND OTHERS	[9] MAINTENANCE AND OTHERS • "Upper/" is deleted from "Upper/lower cleaning roller" in the table. Upper heat roller Lower heat roller Upper roller cleaning roller "Upper/" is deleted	
9-2	[9]-2	Counters and simulation related to maintenance	Counters and simulation related to maintenance	Refer to the separate shee
		(1) List of counters and test commands related to maintenance	(1) List of counters and test commands related to maintenance List change (Refer to the separate sheet 9-2.)	9-2.
9-6	[9]-4-(5)	(5) Paper exit roller driving gears	Illustration shape change	
9-7	[9]-4-(6)	(6) Paper-feed torque limiter 500-sheet cassette brake spring	Illustration shape change	
		Torque limiter 500-sheet cassette brake spring	Brake spring Torque limiter	

2. Consumables

SF-2540 supply system (SEC)

No.	Name	Content		Life	Product name	Package	Remark
1	Upper heat roller kit	Upper heat roller Fusing separation pawl (Upper) Fusing gear	×1 ×4 ×1	160K	SF-240UH	5	For replacement of the fusing separation pawl (80K life) every 80K
2	Lower heat roller kit	Lower heat roller Fusing separation pawl (Lower)	× 1 × 2	160K	SF-240LH	5	For replacement of the fusing separation pawl (80K life) every 80K
3	80K maintenance kit	Cleaner blade Charging plate unit Drum separation pawl unit	×1 ×1 ×1	80K	SF-240KA1	5	Product shipped by Group.
4	Cleaner blade	Cleaner blade		80K (×10)	SF-222CB	1	SEC treats them as parts. (222BL) × 10 = 222CB
5	Upper cleaning roller	Upper cleaning roller	×10	80K (×10)	SF-240UR	1	Order reception: SF-222CB (240RU) × 10 = 240UR Order reception: SF-240UR
6	Lower cleaning roller	Lower cleaning roller	× 10	80K (×10)	SF-235CR2	1	(235RU) × 10 = 235 CR2 Order reception: SF-235CR2
7	Staple cartridge	Cartridge	× 5	5000 times × 5	SD-LS20	10	Common with the cartridge for SD-2075, 3075. (SD-SC20) × 5 = SD-LS20

^{*} For Toner collection bottle (4 pcs, 80K)/Screen grid (80K)/Charger wire (80K)/Ozone filter (80K)/Toner reception seal (160K)/DV seal, use service parts.

Charging plate unit (120K) and drum separation pawl unit (120K) are supplied as service parts.

SF2540 supply system (SECL, for Agent)

No.	Name	Content		Life	Product name	Package	Remark
1	80K maintenance	Upper cleaning roller	× 1	80K	SF-240KA	1	
	kit	Lower cleaning roller	$\times 1$				
		Toner collection bottle	$\times 4$				
		Fusing separation pawl (Upper)	$\times 4$				
		Fusing separation pawl (Lower)	$\times 2$				
		Screen grid	$\times 1$				
		Cleaner blade	$\times 1$				
		Charging plate unit	$\times 1$				
		Drum separation pawl unit	$\times 1$				
2	160K	Upper heat roller	× 1	160K	SF-240KB	1	
	maintenance kit	Lower heat roller	$\times 1$				
		Toner reception seal	$\times 1$				
		DV seal	$\times 1$				
		Fusing gear	$\times 1$				
3	Staple cartridge	Cartridge	×1	5000 times×5	SD-LS20	10	Common with the cartridge for SD-2075. (SD-SC20) ×5 = SD-LS20

SF2540 supply system (SEEG, SUK, SCA, SCNZ)

No.	Name	Content		Life	Product name	Package	Remark
1	80K maintenance	Upper cleaning roller	×1	80K	SF-240KA		For conformity with EAN code
	kit	Lower cleaning roller	×1				
		Toner collection bottle	$\times 4$				
		Fusing separation pawl (Upper)	$\times 4$				
		Fusing separation pawl (Lower)	$\times 2$			1	
		Screen grid	$\times 1$				
		Cleaner blade	$\times 1$				
		Charging plate unit	$\times 1$				
		Drum separation pawl unit	×1				
2	160K	Upper heat roller	×1	160K	SF-240KB		For conformity with EAN code
	maintenance kit	Lower heat roller	$\times 1$				
		Toner reception seal	$\times 1$			1	
		DV seal	× 1				
		Fusing gear	×1				
3	Staple	Staple cartridge	× 5	5000 times × 5	SD-LS20		Common with the cartridge
	cartridge					10	for SD-2075. $(SD0SC20) \times 5 = SD-LS20$

[8] Simulation and diagnostics

1. Simulation

(1) Introduction

Simulation are used to do the following:

- To operate any functional block independently to check its function.
- · To adjust the machine.
- To cancel troubles.
- To set up functions.

(2) Purpose

Simulation are used to help repair and adjust the machine.

When the PAUSE key is pressed in a course of a simulation being executed, the simulation is interrupted with the copy number window turned off and the copier becomes ready to accept entry of a simulation number.

*1: If the key was pressed for more than five seconds, it may not go into the simulation mode.

- *2: Further operation may be needed depending on the kind of simulation.
- *3: One of the next methods is required to cancel the simulation as it varies according to the simulation. The machine then starts from the state immediately after power on.
- Other than simulation 7

The simulation is canceled when the CLEAR ALL key is pressed.

- Simulation 7

One of the following operation cancels the simulation execution.

- 1. Power switch off.
- 2. Press the CLEAR \rightarrow PAUSE \rightarrow 0 \rightarrow PAUSE \rightarrow CLEAR ALL keys.
- Simulation 14

The simulation 14 is used to clear the memory contents (H2, H3, H4) that have been stored. After the simulation 14 has been executed, the diagnostic is automatically terminated.

Special keys

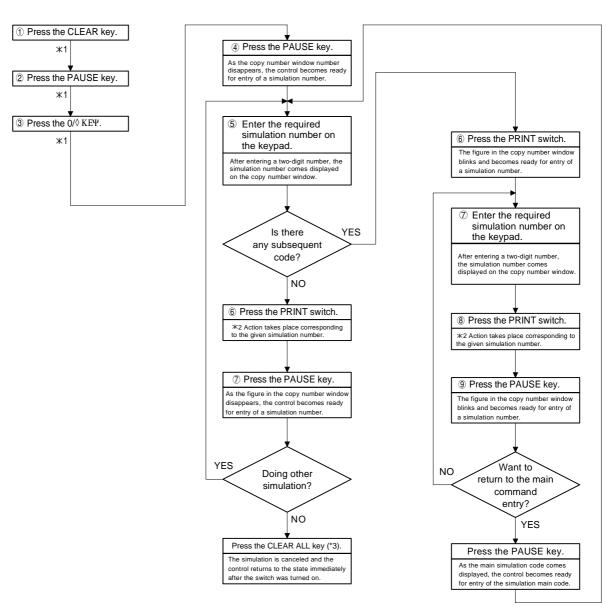
CLEAR ALL key: Simulation mode \rightarrow normal mode.

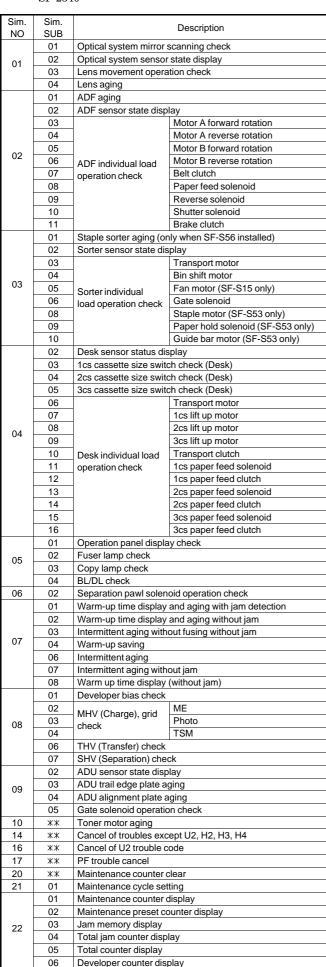
PAUSE key: Execution of simulation is interrupted.

CLEAR key: Clears the copy number window.

 The diagnostic is automatically terminated after the doorswitch operation "ON → OFF → ON", except "H" and "U2" code.

(3) Simulation execution procedure List of the test commands





O7 Developer preset cycle counter display O8 RADF counter display O9 ADU counter display O9 ADU counter display O5 Staple counter display O5 Staple counter display O5 Staple counter display O5 O5 O5 O5 O5 O5 O5 O	Sim.	Sim.	Description			
08 RADF counter display 09 ADU counter display 10 Staple counter display 11 Developer adjustment time display 12 Drum adjustment time display 13 Key operator code display 14 ROM version display 15 Trouble memory display 16 Cassette paper feed counter display 17 Trouble memory display 18 Cassette paper feed counter display 19 Cassette paper feed counter display 19 Cassette paper feed counter clear 10 Cassette paper feed counter clear 11 Cassette paper feed counter clear 12 Cassette paper feed counter clear 13 Cassette paper feed counter clear 14 Cassette paper feed counter clear 15 Cassette paper feed counter clear 16 Cassette paper feed counter clear 17 Drum adjustment time clear 18 Cassette paper feed counter clear 19 Cassette paper feed counter clear 10 Main motor system ON 10 Cassetting for toner control A counter value setting 10 Counter mode setting for toner control A counter value setting 10 Counter mode setting for toner control A counter value setting for counter mode setting for counter mode setting for counter value setting for counter mode setting for counter value setting for paper sensor state display for counter value setting for paper sensor state display for paper sensor state display for paper sensor sensitivity adjustment for paper sensor sensitivity adjustme	NO	SUB 07	·			
10 Staple counter display 11 Developer adjustment time display 12 Drum adjustment time display 13 Key operator code display 14 ROM version display 15 Trouble memory display 16 Cassette paper feed counter display 17 Jam memory/total parm counter clear 10 Jam memory/total parm counter clear 10 Jam memory/tounter clear 10 Jam memory/tounter clear 10 Jam memory/tounter clear 10 ARADF counter clear 10 Staple counter clear 10 Staple counter clear 10 Developer adjustment time clear 10 Drum adjustment time clear 10 Drum adjustment time clear 10 Main motor system ON 10 Auto developer adjustment 10 Toner control A counter value setting 10 Grid correction setting for toner control A 11 Option setting 12 Counter mode setting 13 Coin vendor setting 14 Toner save mode setting 15 AE original density setting 16 Lens focus setting 17 PPC communication trouble 18 Toner save mode setting (Japan + SUK) 19 PPC communication trouble 19 Paper sensor state display 10 Paper sensor state display 10 Document size sensor check 10 Document size sensor check 11 Document size sensor ight receiving level adjustment 12 Document size sensor ight receiving at select check 14 Document size sensor ight receiving at select check 14 Developer counter clear 15 Test mode of half tone density correction 16 Compulsory execution of half tone density correction 17 Drum mark sensor/mage density sensor gain select check 18 Measurement data display of half tone density correction 19 Correction mode setting 10 Decument sensor/mage density sensor gain select check 10 Deration and setting at grid bias 11 Copying is performed without half tone density correction 12 Deration and setting at grid bias 12 Copying is performed without half tone density correction 13 Image density sensor sensitivity adjustment 14 Exposure level adjustment 15 Ozeration adjustment 16 Dear ded edge image position adjustment, (calculating formula) 17 Paper transport direction magnification ratio adjustment 18 Copying is performed without half undednsity correction 19 Paper sensor selvel a						
22 11 Developer adjustment time display 12 Drum adjustment time display 13 Key operator code display 14 ROM version display 15 Trouble memory display 16 Cassette paper feed counter display 17 Trouble memory display 18 Cassette paper feed counter display 19 ADU counter clear 20 Trouble memory/counter clear (SGLWPB) 21 AJA Decounter clear 22 Trouble memory/counter clear (SGLWPB) 23 ADU counter clear 24 O4 RADF counter clear 26 Developer adjustment time clear 27 Drum adjustment time clear 28 Cassette paper feed counter clear 29 Cassette paper feed counter clear 29 Cassette paper feed counter clear 20 Main motor system ON 20 Auto developer adjustment 20 Torner control A counter value setting 20 Torner control A counter value setting 21 Coin vendor setting 22 Counter mode setting 23 Coin vendor setting 24 AF or increase setting 25 Counter mode setting 26 Drum sensitivity setting 27 Drum sensitivity setting 28 Lens focus setting 29 4/5 mirror characteristics setting 30 AF or increase mode setting (Japan + SUK) 31 Toner save mode setting (Japan + SUK) 32 Fixed magnification ratio setting/change 33 Cassette size switch state display 34 Document size sensor check 35 Document size sensor check 36 Document size sensor check 37 Document size sensor check 38 Document sensor light receiving level adjustment 39 Document sensor light receiving level adjustment 40 Correction mode setting 41 Developer counter clear 42 *** Developer counter clear 43 *** Fusing temperature setting 44 Department sensor sensitivity adjustment 45 Test mode of half tone density correction 46 Compulsory execution of half tone density correction 47 Drum mark sensor/image density sensor gain select check 48 Measurement data display of half tone density correction 49 Drum mark sensor check 40 Department data display of half tone density correction 40 Drum mark sensor sensitivity adjustment 41 Sepsor lange position adjustment 42 Sepsor characteristics setting 44 Near Sensor characteristics setting 45 Department plate adjustment value setting 46 Department		09				
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53 adjustment Thin paper, Single copy Thin paper, Duplex copy 05 RADF resist sensor adjustment 06 RADF timing sensor adjustment 07 RADF repulsion sensor adjustment						
53 04 Thin paper, Duplex copy 05 RADF resist sensor adjustment 06 RADF timing sensor adjustment 07 RADF repulsion sensor adjustment						
05 RADF resist sensor adjustment 06 RADF timing sensor adjustment 07 RADF repulsion sensor adjustment	53					
07 RADF repulsion sensor adjustment		05	·			
08 RADF empty sensor adjustment						
		80	RADF empty sensor adjustment			

Main code	Sub code		Description		Ref. Page			
01	01	change the zoom mode using t (2) When the PRINT key is press command starts to execute. Th (3) If the door is opened while the	key, the control moves from the tomp (RPL) comes active with the zone active with the zone ZOOM key. Seed while the RPL is active, the seed while the results are the seed with the results and the seed with the results are the results and the results are the restimated are the results are the results are the results are the	est command mode to be ready to com ratio at 100%. It is possible to status lamp turns off and the test e zoom ratio at that time. tion is interrupted with status "CH"				
	02	prompted. Closing the door will start the operation all over again from its initial step. This is the test command used to test the optical system sensors. When the test command starts the sensor turns on and the display reverses, it starts to test the on/off action of a optical system se						
		MHPS Mirror home LHPS Lens home	Active status lamp v encoder pulse (RE) input e position sensor position sensor or home position sensor					
	03	Inch series machine 100%——		- 200% ◀───────────────────────────────────				
	04	Used to test the zoom lens in the aging test mode. • Test command 01-03 are repeated to test.						
02	01	Used to test the action of the ADF/RADF (ADF aging). The aging test starts when the document presence sensor is manually turned on.						
	02	This is the test command used to tested. When the sensor turns on, the displement DSD Sensing presence of document DSD Sensing pre-fed document DFD Sensing document release RDD		Sensing document width DWS1 Sensing document width DWS2 Sensing document width DSW3				
		Sensing document width		Sensing document width DSW4 Sensing document length				
		DWS	Document sige (length) detection DLS3	DLS1 Sensing document length DLS2				
	22	Reverse display: Paper presence/D		per/Door closed				
	03	Used to test the action of ADF/RAD Motor A forward rotation	F (Individual load check)					
	04	Used to test the action of ADF/RAD Motor A revere rotation	,					
	05	Used to test the action of ADF/RAD Motor B forward rotation	,					
	06	Used to test the action of ADF/RAD Motor B revere rotation	,					
	07	Used to test the action of ADF/RAD Belt clutch	F (individual load check)					
-	08	Used to test the action of ADF/RAD	F (individual load check)					

/lain code	Sub code	Descri	otion	Ref. Page
02	09	Used to test the action of ADF/RADF (individual load Inversion solenoid	check)	
	10	Used to test the action of ADF/RADF (individual load Shutter solenoid	check)	
	11	Used to test the action of ADF/RADF (individual load Brake clutch	check)	
03	01	Staple sorter aging (only when SF-S56 installed)		
		Used to test the operation of the sorter (SF-S56). The sort mode operation (with 20-bin) is repeated with	nout paper.	
	02	This is the test command used to test the sensors in	he sorter.	
		On/off state of sensors can be manually tested. When the sensor turns on, the display reverses.		
		[When SF-S56 installed]		
		Staple door switch DROPN	Staple door sensor SPLDR	
		Joint switch	Staple cartridge sensor	
		JNTS Paper exit sensor	SCD Stapler foreign material sensor	
		SPEXT	Stapler foreign material sensor	
		Stapler oscillation home position sensor SWHP	Staple head sensor STMD	
		Alignment pole home position sensor GBHP	Staple sensor SED	
		Bin unit home position sensor BHP	Bin upper paper sensor BPED	
		Lead cam sensor LDP	DIP switch ? DIPSW ?	
		Stapler home position	Push switch ?	
		SPLHP 24V sensor S_24V	PSW ?	
		[When SF-S15 installed]	Indexer upper limit sense	
		Paper entry sense (Non-sort) PES/SPID	IULS/-	
		Sorter set sense SJS/JSW	Paper entry sense (Sort) -/SPPD	
		Indexer lower limit sense	Top cover open/close sense UCSW/-	
		Paper exit sense PWB-S/-	Indexer (bin) hoe position sense IHS/BHPS	
		Floor cover open/close sense FCSW/-	Paper sense in bin -/BPED	
		Indexer (bin) fixed position sense IPS/LCHPS	Staple cover home position sense -/SCSW	
		Staple position paper sense -/SPED	Guide bar home position sense -/SGHPS	
		Staple unit home position sense -/SCS	Staple unit position sense -/SSD	
		Staple operation home position -/SHPS	Staple sense -/SED	
		Reverse display: paper found/door opened/ON Normal display: no paper found/door closed/OFF		
	03	Used to test the operations of the sorter (individual log	ad check).	
	04	Bin shift motor rotation (returns to the home position 21, moving up and down. Sorter bin moving.	at first, then stops at each bin location Bin 1 to Bin	
	05	Fan motor rotation		
	06	Gate solenoid ON		
	08	Stapler motor rotation (the paper is stapled once w only)	nen there is a paper in the stapler tray). (SF-S56	

Main code	Sub code		Description		Ref. Page		
03	09	Paper holder solenoid operation check (SF-S56 only)					
	10	Guide motor operation check (SF-S	56 only)				
04	02	This is the test command used to to tested.		ate of the sensors can be manually			
		When a sensor turns on, the display	/ reverses.				
		Upper stage paper exit sensor DPOD1	Upper stage cassette lift up sensor DLUD1	Upper stage cassette paper sensor DPE1			
		Upper stage paper paper exit sensor DPOD2	Middle stage cassette lift up sensor DLUD2	Middle stage cassette paper sensor DPE2			
		Lower stage paper sensor DPOD3	Lower stage cassette lift up sensor DLUD3	Lower stage cassette paper sensor DPE3			
		Door open/close sensor DDOP	-	_			
		Reverse display: paper found/door Normal display: no paper found/door					
	03	Used to check ON/OFF of first stag. When the switch is turned on, the d (Cassette size board arrangement) CSSW4	isplay is reversed. Switch position when viewed from CSSW3 CSSW2 CSSW1	n the front frame			
		Paper exit side ◀──	0 0 0	Paper entry side			
	04	Used to check ON/OFF of second stage cassette size switch of the desk (option). The contents are the same as SIM 04-03.					
	05	Used to check ON/OFF of third stage cassette size switch of the desk (option). The contents are the same as SIM 04-03.					
	06	Desk (option) transport motor rotation					
	07	Desk (option) first stage cassette lift up motor rotation (OFF when the upper limit is sensed.)					
	08	Desk (option) second stage cassette lift up motor rotation (OFF when the upper limit is sensed.)					
	09	Desk (option) third stage cassette lift up motor rotation (OFF when the upper limit is sensed.)					
	10	Desk (option) transport clutch ON					
	11	Desk (option) first stage paper feed solenoid ON					
	12	Desk (option) first stage paper feed clutch ON					
	13	Desk (option) second stage paper feed solenoid ON					
	14	Desk (option) second stage paper for	eed clutch ON				
	15	Desk (option) third stage paper feed	d solenoid ON				
	16	Desk (option) third stage paper feed					
05	01	All LED's on the operation panel are turned on for one minute. After one minute, the machine automatically goes into the sub code input wait state.					
	02	This is the test command used to te	est the heater lamp. Heater lamp to	urned on and off five times.			
			ON				
		PR	ON				
		HL	OFF SILVEN				
		→	<500msec				
		The heater turns on and off in the o	rder shown above.				

SF-25	740		
Main code	Sub code	Description	Ref. Page
05	03	This is the test command used to test the copy lamp. Copy lamp turned on in the following order. When the test command starts, the copy lamp turns full power for one second with the manual exposure setting 3.0 shown, and the copy lamp intensity can be changed to the power set on the exposure setup key for a period of 6.25 seconds.	
		Use care not to damage original cover or RADF belt. ON ON CL ON ON CL ON CL ON CL ON CL ON ON ON CL ON ON ON CL ON ON ON ON ON ON ON ON ON O	
		* Refrain from repeating this test command without waiting for lamp and glass to cool.	
	04	This is the test command used to check activation of the discharge lamp (DL) and the blank lamps (BL). The discharge lamp (DL) turns on for 30 seconds. Each blank lamp turns on, from the front frame side to the rear frame side. Finally, all blank lamps turn on. After lighting, the machine automatically goes into the sub code input wait state.	
06	02	Activation of the separation solenoid Used to test the action of the drum separator pawl solenoid.	
07	01	Aging with jam 1. Used to check the warmup time. 2. Executes the continuing aging test for the given number of copies. When the test command is executed, the machine performs its normal action and the warmup time starts to count from zero and increase count every one second. The count is displayed on the copy lamp window. When the RPL is turned on, the addition of the copy number is interrupted with the copy number remaining on display as it is. When the CLEAR key is pressed, the copy number must be entered on the keypad, and with depression of the PRINT switch, the given number of copies repeated to produce. In this case, the paper misfeed function comes alive.	
	02	Aging without jam Aging is performed without paper feed. Similar to SIM 7-1. Aging is performed disregarding paper misfeed function. (For the warm up time check, it is the same as SIM 7-1.)	
	03	Aging without jam without fusing Similar to SIM 7-1. Aging is performed without warm up time and by disregarding trouble functions of the heater system and paper misfeed function. (The heater lamp does not turn on.)	
	04	Saving warm up Warm up time is saved to check the operation of the machine. When this simulation is executed, RPL turns on. The operation of the machine can be checked with this. When the heater section is at low temperature, the heater low temperature trouble may be detected and H4 may be displayed.	
	06	Intermittent aging	
	07	Intermittent aging without jam	
	08	Warm up time display (without aging) (Warm up time check is the same as SIM 7-1.)	
80	01	Developing bias voltage output. After delivering the output, the machine automatically goes into the sub code input wait state. This is the test command used to check the developing bias voltage. The developing bias voltage is turned on for 30 seconds. Standard developing bias setting is –200VDC.	[7]-2(3)
	02	Main (charge) corona output [ME]. After delivering the output, the machine automatically goes into the sub code input wait state. Standard manual exposure mode main corona grid voltage is –875 ± 15V. This is the test command used to check the main corona variance between the front and rear sides. The corona output continues for 30 seconds. • The main corona variance must be within 8μA between the front and the rear.	[7]-5-(D)
	03	Main corona output [PE]. After delivering the output, the machine automatically goes into the sub code input wait state. Standard photographic mode main corona grid voltage is –560 ± 15V.	[7]-5-(D)
	04	Main corona output [TSM]. After delivering the output, the machine automatically goes into the sub code input wait state. Standard TSM main corona grid voltage is –???V ± 15V.	[7]-5-(D)

Main code	Sub code	Description	Ref. Page
08	06	Transfer corona output [TSM]. After delivering the output, the machine automatically goes into the sub code input wait state. This is the test command used to check the transfer corona output (THV). The transfer corona output continues for 30 seconds.	[7]-4-(B)
		THV 30 sec	
		Standard transfer corona output is $-31\mu A \pm 5\mu A$ (F/R difference: Max. $8\mu A$).	
	07	Separation corona output. After delivering the output, the machine automatically goes into the sub code input wait state. This is the test command used to check the separation corona output (SHV). The separation corona output continues for 30 seconds.	[7]-6-(E)
		SHV	
		Adjustment value: 0 ± 10μA (Japan)	
09	02	ADU sensor check test command ON/OFF state of each sensor can be manually checked. When the sensor turns on, the display reverses.	
		Sensor Function	
		DPPD1 ADU transport sensor 1 DPPD2 ADU transport sensor 2	
		DTPID ADU tray sensor	
		DPFD ADU tray out sensor APHPS1 ADU alignment plate home position sensor	
		APHPS1 ADD alignment plate nome position sensor APHPS2 ADU rear edge plate home position sensor	
	03		
	03	ADU trail edge plate drive motor rotation • Used to check the trail edge plate movement	
		(AB series) HP.A3 → B4 → A4R → B5R → A4 → B5 → A5	
		(Inch series) HP.11"x17"→11"x14"→8½x11"(R)→8½x11" ↑	
	04	ADU alignment plate drive motor rotation • Used to check the alignment plate movement	
		(AB series) HP.A3.A4 → B4.B5 → A5.A4R → B5R	
		(lack parise)	
		(Inch series) HP.11"x17".8½x11" → 11"x14".8½x11"(R) — 1	
	05	Gate solenoid activation Used to check the gate solenoid operation.	
10	_	Toner motor activation Used to check the toner motor activation.	
14	_ 	Trouble code cancellation This is the test command used to cancel other than the "U2" trouble. After the trouble has been removed, the test command terminates.	
16	_	U2 trouble code cancellation This is the test command used to cancel the "U2" trouble code. After the trouble code has been removed, the test command terminates.	
17	**	PF trouble cancel Used to cancel the PF trouble in the machine with PC/Modem when the copy inhibition command from the host machine is received. After cancelling the trouble, the test command is automatically cancelled.	
20	_	Maintenance counter clear Used to reset the maintenance preset counter to zero after the maintenance is completed. It is mandatory to clear the counter after the maintenance is completed.	



Main code	Sub code	Description	Ref. Page
21	01	Maintenance cycle setting	
		Used to set the maintenance cycle.	
		Code Maintenance cycle	
		0 · · · · · · · · 80,000 sheets	
		1 · · · · · · · 5,000 sheets 2 · · · · · · · 10,000 sheets	
		3 · · · · · · · 20,000 sheets	
		4 · · · · · · · · 40,000 sheets	
		5 · · · · · · Free	
		The default is 0.	
22	01	Maintenance counter display Copy number of the maintenance counter is displayed.	
	02	Maintenance preset counter display	
		This test command is used to check the contents of the maintenance preset cycle counter.	
	03	 JAM memory display (JAM map display) Displays the causes (positions) of JAM occurred in copy operation. (Max. 50 JAMs from the recent one) To check the history of JAM cause, press the message forward feed key. The history is displayed in the sequence from the oldest to the latest. 	
	04	Total misfeed counter display	
	05	Total counter display	
		This counter is used to show the total copy number of the machine.	
	06	Developer counter display The contents of the copy number counter of the installed developing unit is displayed.	
	07	 Developer preset cycle counter display Number of developer replacements and the reset counter contents of the installed developing unit are displayed. 	
	08	ADF/RADF counter display Used to check the number of originals fed through the ADF/RADF.	
	09	Duplex counter display Used to check the number of sheets fed through the duplex unit.	
	10	Staple counter display Used to check the number of uses of the staple unit.	
	11	Developer adjustment time display Used to check the correction level according to the developer rotating time.	
	12	Drum adjustment time display Used to check the correction level according to the drum rotating time.	
	13	Key operator code display Used to check the key operator code registered voluntarily by the key operator.	
	14	ROM version display Used to display the version of ROM which is currently installed.	
	15	 Trouble memory display Used to display the number of troubles occurred and the trouble codes up to 50 cases from the latest one. 	
	16	Cassette paper feed counter display Used to check the counter value of each cassette.	
24	01	Misfeed map memory and total misfeed counter clear	
	02	Trouble memory clear	
	03	Duplex counter clear The contents of the copy number counter of the duplex unit is reset. It is mandatory to clear the memory contents after the maintenance is completed.	
	04	ADF/RADF counter clear The contents of the copy number counter of the ADF/RADF is reset. It is mandatory to clear the memory contents after the maintenance is completed.	
	05	Staple counter clear The staple unit using counter is cleared to zero.	
	06	Developer adjustment time clear The developer adjustment time is cleared to zero.	

Main code	Sub code	Description	Ref. Page					
24	07	Drum adjustment time clear The drum adjustment time is cleared to zero.						
	08	Tray paper feed counter clear Used to clear the tray paper feed counter.						
25	01	 Used to check malfunction in the main motor drive train. (Rotates for 3 min.) Also, monitors the toner density sensor. (Sensor output value display) (??????) 						
_		 This is the test command used to monitor the toner sensor and to automatically set the developer. For automatically setting developer, the developing tank is stirred and the toner sensor output is monitored. The sensor is monitored 16 times in 3 minutes after the stirring started and the mean value is stored in the memory as the toner density referance value. (See the area marked with an asterisk in the figure below.) (Afterwards, referance changes as copies are made to maintain density.) 						
		DVBIAS						
		THV DL 100m sec 3min 900msec						
		(22222)						
	04	(?????) Toner control A count setting Used to set the max. correction time of toner control (correction by copy time).						
	05	Grid correction amount setting for toner control A Used to set the absolute value of the reference criteria (4Vg) of toner control (correction by grid bias correction value).						
26	01	Option unit setup Used to set up option unit. When the test command is executed, the presently stored machine setup code is displayed with the READY lamp turned on. After the READY lamp has turned on, enter an appropriate setup code on the keypad and press the PRINT switch. Then, the date is stored in the memory and the display returns to the sub code entry menu. Code Option 1 RADF 2 ADU 4 Desk +10 Sorter No need to set "+2 (ADU)". If the ADU is installed, "2" is automatically added.						



Main code	Sub code					Ref. Page			
26	01		T	0.11	1				
		Code	No ontino	Option					
		1	No option RADF						
		2	ADU						
		3	RADF + A	DU					
		4	Desk						
		5	RADF + d	esk					
		6	ADU + de	sk					
		7	RADF + A	DU + desk					
		10	Sorter						
		11	RADF + s	orter					
		12	ADU + soi	ter					
		13	RADF + A	DU + sorter					
		14	Desk + so	rter					
		15	RADF + d	esk + sorter					
		16	ADU + de	sk + sorter					
		17	RADF + A	DU + desk + sorter					
			o set the RA	e that corresponds to an o DF and desk together with		r 1+4=5.			
		(1) E	Be sure to er	nter the code that corresp	onds to the installed optic	on unit.			
		(2) I	f option setu	p is incorrect, a trouble co	ode is displayed. See the	trouble code chart.			
	03		dor setting						
	05	0: Cancel, 1: Setting							
		 Counter mode setup When the test command is executed, the code of the presently stored mode is displayed with the READY lamp turned on. After the READY lamp has turned on, enter an appropriate setup code on the keypad and press the PRINT switch. Then, the code is stored in the memory and the READY lamp turns off. 							
		PRIN	I SWITCH. IN	en, the code is stored in ti	1	DY lamp turns oπ.			
			Code	Total counter	Maintenance counter				
			0	Double count	Double count				
			1 2	Single count Double count	Double count Single count				
			3	Single count	Single count				
				Origio court	Origio oddin	_			
	06	Destination	•						
				ation setting.					
				nmand is executed, the pertable below) and the RE		umber and the destination code			
		② After	the READY	lamp has turned on, en	ter the model number a	nd the destination code on the ory. The READY lamp then turns			
			Code	Destination	AB/Inch				
			0	SEC (ES) America					
			1	SEC * America	(Inch)				
			2	SECL Canada	(IIIOII)				
			3	Other					
			4	Japan	(AB Japan)				
			5	Other		4			
			6 7	SEEG German SUK U.K.					
			8	SCA Australia	(AB Export)				
			9	Other					
				1	1	_			
			¥ Energy	etar					
			* Energy	star					

Main code	Sub code	Description	Ref. Page					
26	07	Drum sensitivity setup ① When the test command is executed, the number stored in the memory is recalled and the READY lamp turns on. ② A number 1 to 3 may be entered on the keypad while the RPL is active.	-					
		③ Press the PRINT switch after the number has been entered. With this, the READY lamp turns off and the test command number is displayed.Orum						
		Keypad entry123Sensitivity123						
	08	Lens characteristics entry (at a time of lens replacement) Because each lens has a variance in focal distance, the lens moving distance in any zoom mode must correspond with the focal distance of the lens. The zoom ratio varies proportionate to the variance of the lens focal distance. To avoid focus problem, the class of the lens focal distance (refer to chart on page 7-11) is stored in the	[7]-10-(6)					
		memory using the test command. In a variable zoom mode, the lens moving distance that corresponds to the lens focal distance is obtained on the basis of the data so as to produce the accurate zoom copy. Setup method (26-08)						
		 When the test command is executed, the presently stored preset code is displayed and the READY lamp turns on. After the READY lamp turned on, enter the lens number shown on the top of lens area and press 						
	09	the PRINT switch to store the value in the memory. The READY lamp now turns off.	[7] 40 (0)					
	09	 4/5 mirror characteristics entry (at a time of lens replacement) ① Set the correction value for lens marked value based on "lens value vs. test command input." As the READY lamp turns on, the previously set value 1 to 21 is shown. ② Enter the new value on the keypad. Example: If the value shown on the lens is +1, 2, enter "14." 	[7]-10-(6)					
		Press the $\boxed{1} \rightarrow \boxed{4} \rightarrow \boxed{PSW}$ keys.						
		The value is "0-L" value on the label which is attached to the lens unit. Manufacturing date						
		(O-L)						
		(O-i) 901024 O. L +1.2 O. i +2.4 P. NO 12 TOPCON						
		Preset value Label display						
	10	AE original density setting Used to set the original density. (Set value: 1 ~ 9) Default: 2 Set to 9 if the density is extremely low.						
	18	Toner save mode setting						
	28	Fixed magnification ratio setting ① Select the magnification ratio to be set or changed with 10-key on the magnification ratio select menu.						
		After selection, press the START key to fix it, and the display goes to the magnification ration change menu.						
27	01	② Set the desired magnification ratio with the zoom key. Then press the START key to fix it.						
30	01	PPC communication trouble Monitoring main unit paper sensor Used to check the on/off state of paper sensor in the copier. When the sensor turns on, the display reverses.						
	02	Monitoring paper cassette size Used to check the on/off state of paper cassette size. When the switch turns on, the display reverses.						

Main code	Sub code	Description				Ref. Page		
41	01	The document I	photo sensor check ength is sensed by inte or is turned on (docume	rrupting the document.		[8]-4-(1)		
		Shaft	Japan AB series	EX AB series	EX inch series			
		1	_	A5	5 1/2" × 8 1/2"			
		2	B5	A4	11" × 8 1/2"			
		3	A4	_				
		4	B5R	A4R	11" × 8 1/2" (R)			
		5	A4R B4	— B4	11"×14"			
		6 7						
		OCSW is used to check the original cover open/close. Reversed display: Cover open Normal display: Cover close						
	00	Decomment sine				[7] 40 (2)		
	02		photo sensor setting			[7]-18-(2)		
	03	 Document sensor light reception level and setting level display Used to check the document sensor level. Light reception level display The light reception level during execution of the simulation is displayed. Setting level display Each sensor level set with SIM 41-2 is displayed. 						
42	*	Developer co Reset the cor	unter clear ntents of the copy numb	per counter of the install	led developing unit.			
43	*		e "43" is entered, the fo					
		Fusing temporal control c		gccago lo dio	, .,			
			fusing temperature.					
			lation is executed, the c	currently set fusing temp	perature is displayed.			
		The fusing temp	peratures in the single c	copy mode and the dup	lex copy mode can be set individ	lually.		
		Use the messag	ge forward scroll key to	select the mode. Use t	he ten key to set the temperature	е.		
			S	SIMULATION No.43-*				
		[1	\rightarrow 1, 2 \rightarrow 1]					
		ll li	NPUT 0 ~ 9					
			. 160℃ 2. 165					
			. 175℃ 5. 180					
			. 190℃ 8. 195	9. 200℃	0. 205℃			
		_	0 ightarrow 2, $2 ightarrow 2$] NPUT 0 ~ 9					
			. 160℃ 2. 165	°C 3. 170°C				
			175°C 5 180	°C 6 185°C	l			
		4	. 175℃ 5. 180 . 190℃ 8. 195		0. 205°C			
		4 7	. 175°C 5. 180 . 190°C 8. 195 . → 2, 2 → 2] SETTING	9. 200°C	0. 205°C			

Main code	Sub code	Description	Ref. Page
44	01	Correction mode setting [+ 1] Process control correction enable [+ 2] Optical dirt correction enable [+ 4] Drum layer wear correction enable Note: When all are "Enable," set to 37.	
		The corrections, except for the process control correction mode, can be disabled in the norm copy mode. When "0" is inputted, "1" (Process control correction) is enabled. (Automatic setting	
	02	Drum mark sensor sensitivity adjustment: 0 ~ 255 (5V) For the drum mark sensor gain rank, "2" is selected. The main motor rotates and the drum mark sensor sensing level is displayed on the multi-displayed section. Adjust VR1 in the process unit to obtain [204±10].	ау
	03	Image density sensor sensitivity adjustment: 0 ~ 255 (5V) For the image density sensor gain rank, "2" is selected. The main motor rotates and the image density sensor sensing level is displayed on the multi-displayed section. Adjust VR2 in the process unit to obtain [204±10].	ay
	05	Test mode of half tone density correction: 0 ~ 255 (5V) The main motor rotates to form images in nine steps of the grid bias level from 450V to 850V (50V ste on the drum, and the image density sensor level is displayed on the LCD.	p)
		· · · · · · · · · · · · · · · · · · ·	p)

Main code	Sub code			D	escription			Ref. Pag	
44	06	Compulsory 6	Compulsory execution of half tone density correction						
		SIMULATION No.44-6							
			Compulso	ry execution of	half tone density	y correction			
			NORMAL	:****	PATCH1	:***			
			T/S	:****	BASE1	:***			
			PHOTO	:****	PATCH2	:***			
			GB ADJUST	:***	BASE2	:***			
			TARGET	:***	PATCH3	:***			
			ID GAIN	: *	BASE3	:***			
			MARK	:***	1	:***			
			MARK B	:***	m	:***			
			DM GAIN	: *	n	:***			
			l * m * n	:***	M1	:***			
					M2	:***			
	07		: Patch/surface. P : Image density so : Drum mark sens : Drum mark sens : Drum mark sens : Drum surface im : Toner patch ima : Vg correction co : Dirt correction co : Dirt correction co : Dirt correction co : Dirt correction co : Vc1 correction co	e grid bias (450 and 1450 and	2 ~ 1250V) 50V) measurement (± value when surficin execution (1 ~ 1 execution (0 ~ 2 I in execution (1 ~ 7 nsor level in execution (2 execution (3 ~ 2 execution (4 ~ 3 execution (5 ~ 2 execution (6 ~ 2 execution (6 ~ 2 execution (6 ~ 2 execution (6 ~ 2 execution (7 ~ 7 execution (7 ~ 7 execution (8 ~ 2 execution (9 ~ 2 execut	ace is 255. (255 = 7) 255 = 5V) ~ 255 = 5V)) cution (0 ~ 255, 25 each gain rank.	255 =5V)		

Main code	Sub code	'						
44	09	Measuremen	t data display of ha	alf tone density c	orrection			
				SIMULAT	ION No.44-9		1	
			Compuls	sory execution of	half tone density	correction		
			NORMAL	:****	PATCH1	:***		
			T/S	:****	BASE1	:***		
			PHOTO	:****	PATCH2	:***		
			GB ADJUST	:***	BASE2	:***		
			TARGET	:***	PATCH3	:***		
			ID GAIN	:*	BASE3	:***		
			MARK	:***	I	:***		
			MARK B	:***	m	:***		
			DM GAIN	: *	n	: ***		
			l*m*n	:***	M1	: ***		
		L			M2	: ***]	
		NORMAL T/S PHOTO GB ADJUST TARGET D GAIN MARK MARK B	: Patch/surface. : Image density : : Drum mark ser	de grid bias (450 id bias (450 ~ 12 ction value after Patch reference sensor gain rank sor mark level ir) ~ 1250V) 50V) measurement (±0	ce is 255. (255 = Sur 7) 55 = 5V)	face)	
		DM GAIN BASE 1,2,3 PATCH123 I m n M1 M2 I*m*n	: Drum surface in	mage density se age density sensioefficient coefficient ection coefficient coefficient (M1) coefficient (M2)	sor level in execut	ution (0 ~ 255, 255 = ion (0 ~ 255, 255 =5'		
	11	Used to set th	he grid voltage in e	each copy mode.			_	
		Display	GB-350V PATCH	GB_850V : *** *	GB_1000V NORMAL	GB_1150V : ** *		
			T/S	:****	PHOTO	:***		
			NORMAL -	-610±10 -860±10 -755±10			-	
				-610±10				
			to select, and pres					
	12		ade without half to in the process sec			nis simulation is used 2 trouble occurs.	d to know whether	
46	01		evel adjustment just the copy dens	ity and the copy	density select leve	el.		[7]-19-(6
47	*	AE sensor (1) AE se When The R Press each memo NOTE 1 Execute point.)	READY lamp turns the PRINT switch from 80V (160V) to ory. The values are E: Shown in parentl	tics memory cteristics input executed, the mi on now and beco n. The copy lam o 30V (60V), and e used as referant hesis is for the 2 or base starts so	omes ready to me- ip driving voltage d the AE sensor c ces. 00V series machir canning and stops	changes in incrementation of the characteristics are. at the AE sensor leads to the characteristics are the characteristics are the characteristics.	ents of 10V (20V) s are stored in the	[7]-18-(3

Main code	Sub code	Description	Ref. Pag
48	01	Front/rear direction zoom ratio adjustment (refer to [8]-5-(6) for the lens type value. Used to set the No.4/5 mirror home position (focal adjustment) and to adjust the zoom ratio of the copy in the vertical direction (from front to rear). There are two kinds of test command 48-01 of which are described as follows. 1-1. Horizontal copy zoom ratio standard value input method (at a time of lens or main PWB	-
		replacement) When this simulation is executed, the already set value or "40" is displayed. Substitute the value of "O.L" shown on the label attached to the lens with the formula value. $40 - [(\text{value of O.L.}) \times 5] = \text{standard value of correction}$ Ex: $40 - (+1.2 \times 5) = 34$	[7]-8-(1 -(3
		1-2. Use this test command to adjust the horizontal zoom ratio. Change the value entered in "1-1" to change.	
		2-1. No.4/5 mirror home position standard value input (at a time of lens or main PWB replacement). When this simulation is executed, the already stored value or "42" is displayed. Substitute the value of "O.L" shown on the label attached to the lens with the formula value. 42 – [(O.L value) x 10] = standard value of correction Ex: 42 – (+1.2 x 10) = 30	[7]-8-(2 [7]-9-(4
		2-2. To adjust the resolution, change the value entered at "2-1" using this test command. When the No. 4/5 mirror reference value is "+" from the center value "50", the mirror is shifted away from the lens to lengthen the light path. When it is "-", the mirror is shifted to the lens to shorten the light path. The value is calculated in this manner. Manufacturing date	
		(O-L) 901024 O.L +1.2 O.i +2.4 P.NO 12 TOPCON	
		Label display Preset value	
	02	 Paper transport direction magnification ratio adjustment Used to adjust the magnification ratio in the transport direction. Varying the mirror base moving speed adjusts the zoom factor in the landscape direction of the copy (paper moving direction). Place a scale over the original table in the direction the paper moves. Make a copy in the 100% 	[7]-10-(
		zoom mode and obtain the copy zoom ratio correction factor. Copy zoom correction factor = (original size) - (copy image size) / (original size) × 100%	
		(original size) ② As the READY lamp turns on, the previously set figure between 5 and 35 is displayed. Change it with the copy zoom factor correction factor obtained in ①. (Input value) = (previously stored value) + copy zoom ratio correction factor [%] × 10 Press the PRINT switch after entering the input value. With this, the input value is stored in the memory and the READY lamp turns off.	
50	01	Used to adjust the copy lead edge image loss and void areas. For more information, refer to the optical system copy lead edge adjustment procedure.	[7]-15-(1
	02	The function of this test command is similar to the test command 50-01. The test command 50-02 allows easier lead edge adjustment using the values of L1 and L2. For more information, refer to the optical system copy lead edge adjustment procedure.	[7]-15-(1
51	02	 Resist amount adjustments Used to set the on timing of the paper feed roller (rate of buckle in the paper caused by the resist roller). When the test command is executed, the manual feed mode is automatically established. Change the manual feed mode resisting rate, cassette paper feed resist rate, and ADU paper feed resist rate independantly. When this simulation is executed, the manual feed lamp turns on → ① Enter number → press the cassette key (main unit bottom cassette and pause lamp turn on) → ② enter number → press the cassette key (main unit bottom cassette lamp turns on) → ③ enter number → press the cassette key. ①: Manual feed paper resist rate adjustment (MULTI TRAY) ②: Cassette paper resist rate adjustment (TRAY) ③: ADU paper resist rate adjustment (ADU) Reference value 40, 45, 50 (When "0" is entered, the reference value is set.) 	
		RESIST AMOUNT ADJUSTMENT MANUAL: CASSETTE:	

Main code	Sub code	Description	Ref. Pag
52	01	 ADU alignment plate adjust value setup Used to adjust the home position of the ADU alignment plate. When the test command is executed, the READY lamp turns on. Enter a new value as the previously set value came displayed, and press the PRINT switch to stored it in memory. It is adjustable from 1 to 99. The default is 7. Setting a smaller value increases the width of the alignment plate and vice versa. 	
	02	 ADU rear plate adjust value setup Used to adjust the home position of the ADU rear plate. When the test command is executed, the READY lamp turns on. Enter a new value as the previously set value came displayed, and press the PRINT switch to stored it in the memory. It is adjustable from 0 to 99. The default is 0. Setting a smaller value increases the width of the rear plate and vice versa. 	
	03	ADU drive clutch off time setup: 10ms increment (1 step) 0 ~ 10 1 = 1ms, ··· 18 = 18ms, ··· 99 = 99ms Setting a smaller value shortens the ADU clutch off timings and decreases the enforced curling rate of paper.	
53	01	 RADF and ADF stop position adjustment value (normal paper, single copy) setting Used to adjust the RADF stop position in single copy with normal paper. When this simulation is executed, the ready lamp lights up and the currently set adjustment value is displayed. Enter the new adjustment value and press the PRINT switch to store it in the memory. The adjustment value should be in the range of 0 to 15. 	
	02	 RADF stop position adjustment value (normal paper, duplex copy) setting Used to adjust the RADF stop position in duplex copy with normal paper. When this simulation is executed, the ready lamp lights up and the currently set adjustment value is displayed. Enter the new adjustment value and press the PRINT switch to store it in the memory. The adjustment value should be in the range of 0 to 15. 	
	03	 RADF and ADF stop position adjustment value (thin paper, single copy) setting Used to adjust the RADF stop position in single copy with thin paper. When this simulation is executed, the ready lamp lights up and the currently set adjustment value is displayed. Enter the new adjustment value and press the PRINT switch to store it in the memory. The adjustment value should be in the range of 0 to 15. 	
	04	 RADF and ADF stop position adjustment value (thin paper, duplex copy) setting Used to adjust the RADF stop position in duplex copy with thin paper. When this simulation is executed, the ready lamp lights up and the currently set adjustment value is displayed. Enter the new adjustment value and press the PRINT switch to store it in the memory. The adjustment value should be in the range of 0 to 15. 	
	05	 RADF and ADF resist sensor adjustment Used to adjust the RADF resist sensor. (In the case of ADF, the resist sensor and the paper pass width sensor are adjusted.) When this simulation is executed, the RADF resist sensor is adjusted and the adjustment value is displayed. 	
	06	 RADF and ADF timing sensor adjustment Used to adjust the RADF timing sensor. When this simulation is executed, the RADF timing sensor is adjusted and the adjustment value is displayed. 	
	07	 RADF and ADF repulsion sensor adjustment Used to adjust the RADF repulsion sensor. When this simulation is executed, the RADF repulsion sensor is adjusted and the adjustment value is displayed. 	
	08	 RADF and ADF empty sensor adjustment Used to adjust the RADF empty sensor. When this simulation is executed, the RADF empty sensor is adjusted and the adjustment value is displayed. 	



(Trouble codes list)

Trouble status code	Subordinate code	Description
L4	01	Main motor lock detection
	03	No.4/5 mirror motor error detection
L5	04	No.4/5 mirror motor MHPS error detection
	05	Lens motor error detection
	06	Lens motor LHPS error detection
L8	01	Power supply line frequency error detection
Lo	03	AE output is not changed. (During execution of SIM47)
H2	_	Open thermistor (Test command 14 to reset)
H3	_	Heat roller high temperature detection (Test command 14 to reset)
H4	_	Heat roller low temperature detection (Test command 14 to reset)
U2	00	Memory sum check error
02	01	Counter sum check error
U3	20	Mirror motor lock detection
03	21	Mirror motor MHPS error detection
U4	02	ADU alignment plate malfunction detected
04	04	ADU rear plate malfunction detected
	00	ADF communication trouble detected
	01	A motor malfunction detected
U5	02	B motor malfunction detected
	03	Resist sensor malfunction detected
	04	Eject sensor malfunction detected
	00	Desk communication trouble detected
	01	Desk-1 cassette liftup motor trouble detected
	02	Desk-2 cassette liftup motor trouble detected
U6	03	Desk-3 cassette liftup motor trouble detected
	08	Desk 24V line error detected
	09	LCC motor overcurrent detected
	10	Desk transport motor trouble detected
U7	00	Communication trouble between PC/Modem and the copier.
	00	Sorter communication trouble detected
	02	Transport motor malfunction detected
F1	04	Indexer lower limit detected
	05	Indexer upper limit detected
	06	Shift motor malfunction detected
	08	Staple shift motor trouble
	02	Toner motor malfunction detected
	31	ID sensor level abnormality (less than 3V)
		ID sensor photo conductor surface level abnormality (less than 2.25V)
	32	DM sensor level abnormality (less than 3V)
F0		DM sensor cannot sense.
F2		When measuring the gain level (at 1.5 rotations of the drum)
		DM sensor cannot sense.
		When measuring the patch (at 1.5 rotations of the drum)
	35*	Adjustment impossible for GB (-32V * 4 times)
		Adjustment impossible for GB (+32V *7 times)
		Preliminary adjustment impossible for GB (-200V to -88V)
F3	12	Main unit upper cassette liftup motor trouble detected
-5	22	Main unit lower cassette liftup motor trouble detected
EE	EL	Automatic developer adjustment: Over-toner
	EU	Automatic developer adjustment: Under-toner
CC		Original size detect sensor level abnormality.
C2	00	THV leak trouble

Mark " * ": The error display is given only when performing the simulation. (For the process control at warming-up,, the error display is not given.)

Display codes other than trouble

Trouble codes	Sub code	Operation
CH	 Door open/DV unit uninstalled 	
PC	_	Personal counter uninstalled/auditor code input waiting
PF	_	Copy inhibit command is received from the host when installing PC/Modem.

(Key operator program)

The list below shows all key operator programs. These programs can be used only when the key operator code in inputted at the beginning.

Program Code No.	Program name	Function
P10	Auditing Mode	Enables or disables the basic auditing mode, which controls access to copier.
P11	Number of Copies per Account	Displays the total number of copies made against account numbers.
P13	Resetting Account	Resets all audit accounts or selectively resets individual accounts.
P14	Account Number Control	Registers accounts, deletes accounts, changes an account number, or displays all registered account numbers.
P16	Account Limit Setting	Sets the maximum number of copies which can be made against a registered account number.
P18	Account Number Security	Guards against 3-time continuous error entering of audit account numbers.
P19	Key Operator Code Number Change	Changes the key operator code number.
P20	Auto Exposure Adjust	Lightens or darkens copies in the automatic exposure mode.
P21	Auto Power Shut-off Timer	Sets a time interval after which the copier automatically turns off. (10 min ~ 4 hours)
P22	Toner Save Mode	Toner save mode setting (Except for Japan and SUK)
P23	Auto Clear Setting	Sets a time interval after which the copier returns to the initial settings. (10 sec ~ 240 sec)
P24	Fixed magnification ratio setting	Adds or changes reduction and enlargement fixed magnification ratios. (50 % ~ 200 %)
P25	Setting a Maximum Number of Copies	Sets the maximum number of copies that can be selected. (Number of copies, number of sets of copies)
P26	Margin Shift Setting	Sets the margin shift values.
P27	Erase Width Adjustment	Sets the amount of the erase area.
P28	Initial Status Setting	Sets the copier's initial settings in the ready condition.
P29	Total Copy Count	Recalls the total copy counts of the copier, document feeder, duplex module, and stapler.
P31	Preheat Mode Setting	Sets the time that elapses before the copier enters the preheat mode after copying is completed. (1 min \sim 120 min)
P42	Right/Left Shift Direction Selection	Determines whether shift direction change is to be allowed.
P43	Erase Mode Initial Setting	Selects the erase mode's initial setting.
P44	Insertion paper inserting page content read inhibit	Reading of the insertion page of insertion paper is inhibited.
P45	Message Time Setting	Sets the length of time that messages are displayed.
P46	Operation inhibit mode	Prevents the copier from being started by people other than key operator.
P47	Stream Feeding Mode	Enables the stream feeding mode for copying from an optional document feeder.
P52	Staple sorter bin paper exit limitation cancel (Only when SF-S56/S53N is installed)	Staple sorter bin paper exit limitation can be canceled.
P70	Disabling of Auto Paper Selection	Prevents automatic paper selection when using the ORIGINAL SIZE ENTER key or copying from an optional document feeder.
P71	Disabling of Auto Tray Switching	Prevents automatic switching between the paper trays.
P72	Prohibiting of Manual Feed Tray in Duplex Copy	Prohibits the use of the manual feed tray during duplex copying. (Duplex copying can be performed when an optional duplex module is installed.)
P73	Disabling Deletion of Job Programs	Prevents stored programs from being replaced or deleted.
P74	Disabling of Document Feeder	Prevents the use of an optional document feeder when it malfunctions.
P75	Disabling of Duplex Copying	Temporarily prevents the optional duplex system from operating when it malfunctions. Allows the use of the copier but not the duplex system.
P76	Disabling of Stapler	Prevents damage to the stapler while awaiting repair service. (Staple sorters are optional.)
P77	Disabling of Covers	Prevents the selection of COVERS mode. (The COVERS mode can be used when an optional document feeder is installed.)
P80	Copy inhibit when size/direction warning	Copying can be inhibited when the document direction differs from the paper direction or the maximum size paper is not set.
P83	Disabling of PC/Modem Access	Provides or prevents access to key operator programs through a PC/modem without key operator code entry. (Remote access to key operator programs can be performed only when a computer or other equipment is connected to the copier directly or through a telephone line.)
P86	Auto power shut off mode inhibit	Use of the auto power shut off mode can be inhibited.
P90	Display the List of All P Codes	Sequentially displays all available programs.

^{*} Cannot be set when the option SFEAII (card-type department control counter) or the SF-EA12 (password-type department control counter) is installed.



2. Counters and simulation related to maintenance

(1) List of counters and test commands related to maintenance

Content	Simu	lation	Remark
Content	Main code	Sub code	Remark
Maintenance counter clear	20	**	Set the preset counter to "0."
Maintenance cycle setting			CodeMaintenance cycle
			080,000 sheets
		_	1 5,000 sheets
	21	1	210,000 sheets
			320,000 sheets
			440,000 sheets
			5Free
Maintenance counter display	22	01	Maintenance counter copy quantity is displayed.
Maintenance preset count display	22	02	Maintenance preset counter content is checked.
JAM map display	22	03	JAM memory display
Total JAM counter display	22	04	
Total counter display	22	05	Total copy quantity check
DV life counter display	22	06	DV life counter display
DV life preset counter display	22	07	DV life preset counter display
ADF RADF count display	22	08	ADF/RADF used quantity check
Duplex count display	22	09	Duplex used quantity check
Staple counter display	22	10	Staple used number of times
Developer adjustment time display	22	11	
Drum adjustment time display	22	12	
Cassette paper feed count display	22	16	Each cassette used quantity check
JAM map memory, total JAM counter clear	24	01	JAM map memory, total JAM counter are cleared to "0."
Duplex counter clear	24	03	Duplex counter is cleared to "0."
ADF/RADF count clear	24	04	ADF/RADF counter is cleared to "0."
Staple counter clear	24	05	Staple counter is cleared to "0."
Developer adjustment time clear	24	06	Developer adjustment time is cleared to "0."
Drum adjustment time clear	24	07	Drum adjustment time is cleared to "0."
Cassette paper feed counter clear	24	08	Each cassette used number of times is cleared to "0."
Mini maintenance counter and DV life counter clear	42	**	Mini maintenance counter and DV life counter are cleared to "0."

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