SHARP SERVICE MANUAL

CODE: 00ZSF2530FM/E

No.1

SF-2530 SF-D23/D24 MODEL SF-DM11

[Note] The SF-2530 is a minor change model of the SF-2030. This Service Manual omits descriptions common with the SF-2030, and describes only the different points of the SF-2530. For the different points, refer to the list of changes between the SF-2030 and the SF-2530.

	CONTENTS —
[1]	PRODUCT OUTLINE
[2]	PRODUCT SPECIFICATIONS
[3]	OPTIONS SPECIFICATIONS
[4]	COMPONENT IDENTIFICATION
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[7]	ADJUSTMENTS
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[9]	MAINTENANCE AND OTHERS

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 SF-2030 and SF-2530

			SF-2030	SF-2530	Devent
No.	Page	Item	Content	Change	Remark
	1-1	[1]-1	General description	Model name change SF-2030 is changed to SF-2530. SF-2040 is changed to SF-2540.	
		[1]-4	System outline	Model name change and addition 20-bin staple sorter: SF-S56 is added.	
				SF-S56	
				10-bin staple sorter SF-S54N is added.	
				SF-S54	
				10 hip stanle certer (SE SS2) is deleted	
				10-bin staple sorter (SF-S52) is deleted. Desk: SF-DS15 is added.	
				ADU: SF-DM11 is added. Card-type department control counter:	
				SF-EA11 is added.	
				Password-type department control counter : AD-EA12 is added.	
				Commander: SF-EA13 is added.	
				Personal counter: SF-71A/B is added. SF-S53 is changed to SF-S53N.	
	2-1	[2]-1-(6)	Warmup time	"About 60 sec" is changed to "About ??? sec."	
		[2]-1-(7)	Multicopy	999 sheets is changed to 99 sheets.	
	2-2	[2]-1-(10)	Paper feed	Letter size is added to AB series.	
				A4 size is added to Inch series. Letter/13" is added to AB series. 13"/A4 is added to Inch series. AB series	
				Paper entry Paper size	
				Upper cassette B5/B5R (Option) A4/A4R/B4/A3 Letter/13"	
				Lower cassette A5/B5/B5R A4/A4R/B4/A3	
				Letter/13" A5: * With the option ~	
				Inch series	
				Paper entry Paper feed size	
				Upper cassette Letter/Letter R/	
				(Option) Legal/Ledger 13", A4	
				Lower cassette Letter/Letter R/	
				Legal/Ledger/ Invoice, 13"/A4	
				* With the option ~	

). 	SF-2030							SF-2530				
Page			Content				Change				Remai	
2-3	[2]-1-(20)	(20) Paper receiv	e tray and	I finishing			SF-S	ame char 353 is cha 352 is dele in the tabl	nged to seted.	SF-S53N		
							Finish	ning functi	on ca	Sort apacity	Non-sort capacity	
								sorter		???	??? (SF-S54)	
							20-bin	staple sor	rter	???	??? (SF-S56)	
		Accessory of SF- <note> ROM lan (25) Accessories</note>			changes i	n thi	s model	are in bol	d fonts.)		,	
		Destination	Japan	SEC	SECL	5	SEEG	SUK	SCA	AB agei	nt Inch agent	
		Drum *2	Installed when	Installed when	Installed when		parately acked	Installed when	Installed when	when	d Installed when	
		Developer (Black)	shipping	shipping X	shipping X	P	X	shipping ×	shipping X	shippin X	g shipping X	
		Toner cartridge Original cover	O Standard	X	X		X	X	X	X St	X andard	
		Paper exit tray 1	provision	Option	Option		Option	Option	Option	LAG is	an option.	
		*1 Original table	×				0			I AG :-	X s an option.	
		Toner collection container			○ (4 pc:	s.) Or	ne is insta	alled when s	shipping.	LAGIS	ан орион.	
		Operation manual	Japanese	Exclusive English	English/ French	Е	: erman/ nglish : None	Exclusive English	English	English French Arabic Typica exampl	/ Spanish Typical example	
		Dust cover	0			1	X		-	C	(Part)	
		Zooming ratio table	0					×	I			
		ROM language	Japanese	English	English		: German : None	English	English	Spanis	sh/French/ h depending destination	
		Key sheet	Japanese	English	English/ French	Е	: erman/ nglish : None	English	English + Foolsca		partly	
				SEL = Eng	lish/French	pack	ked togeth	ner. SEEG	(BG) = Tre	ated in a k	iit.	
		Other printed matter Delivery/installation Counter contract × *1: Retractable (J	n report (Jap 2 (Japan)				Warranty	registration	n (SUK), M	laintenanc	e card,	
		**!: Retractable (J *2: For SEEG/SU					nstalled	when sh	ipping.			

Page 2-5			SF-2030				SF-2530		Damada
-	Item		(Content			Change		Remark
	[2]-2			e (Refer to the table below.))				I
			C: SF-2530						T
		No.	Name	Content		Life	Product name		
		1	Upper heat roller kit	Upper heat roller	×1	160K	SF-230UH	5	For replacement of fusing separation pawl (80K life) at
			TOHOT KIL	Fusing separation pawl (Upper					every 80K, use a service par
		2	Lower heat	Fusing gear	×1 ×1	160K	SF-240LH	5	
			roller kit	Lower heat roller Fusing separation pawl (Lower		TOUR	SF-240LH	5	For replacement of fusing separation pawl (80K life) at every 80K, use a service particle particle.
		3	80K maintenance kit	Cleaner blade	×1	80K	SF-240KAI	5	,,
			maintenance kit	Charging plate unit	× 1				
				Drum separation pawl unit	× 1				
		4	Cleaner blade	Cleaner blade	×10	80K (× 10)	SF-222CB	1	
		5	Upper cleaning roller	Upper cleaning roller	×10	80K (× 10)	SF-240UR	1	(SF-240RU) × 10 = SF-240U
		6	Lower cleaning roller	Lower cleaning roller	×10	80K (× 10)	SF-235CR2	1	
		7	Staple cartridge	Staple cartridge (3 pcs)	× 10		SF-LS51	1	Common with the staple sort (SF-S51) (SF-SC51) × 10 = SF-LS51
		8	Staple cartridge	Staple cartridge	×5	5000 times × 3	SD-LS20	10	Common with the staple sort (SF-S53) (SD-SC20) \times 5 = SD-LS20
2-6	[2]-2		CL, Agents: SF-S	nit (80K) and drum separati	J., pc				
		No.	Name	Content		Life	Product name	Packing	Remark
		1 1	80K	Hanna and a sala a salla a					
		11'	OUIX	Upper cleaning roller	× 1	80K	SF-240DKA	1	
			maintenance kit	Lower cleaning roller	× 1 × 1	80K	SF-240DKA	1	
				- · ·		80K	SF-240DKA	1	
				Lower cleaning roller	× 1	80K	SF-240DKA	1	
				Lower cleaning roller Cleaner blade Toner collection container Fusing separation pawl (Upper	×1 ×1 ×4 •)×4	80K	SF-240DKA	1	
				Lower cleaning roller Cleaner blade Toner collection container Fusing separation pawl (Upper Fusing separation pawl (Lower	×1 ×1 ×4 •)×4	80K	SF-240DKA	1	
				Lower cleaning roller Cleaner blade Toner collection container Fusing separation pawl (Upper Fusing separation pawl (Lower Screen grid	×1 ×1 ×4 ()×4 ()×2 ×1	80K	SF-240DKA	1	
				Lower cleaning roller Cleaner blade Toner collection container Fusing separation pawl (Upper Fusing separation pawl (Lower Screen grid Charging plate unit	×1 ×1 ×4 ()×4 ()×2 ×1 ×1	80K	SF-240DKA	1	
			maintenance kit	Lower cleaning roller Cleaner blade Toner collection container Fusing separation pawl (Upper Fusing separation pawl (Lower Screen grid Charging plate unit Drum separation pawl unit	×1 ×1 ×4 •)×4 •)×2 ×1 ×1 ×1				
		2	maintenance kit	Lower cleaning roller Cleaner blade Toner collection container Fusing separation pawl (Upper Fusing separation pawl (Lower Screen grid Charging plate unit Drum separation pawl unit Upper heat roller	$\begin{array}{c} \times 1 \\ \times 1 \\ \times 4 \\) \times 4 \\) \times 2 \\ \times 1 \\ \times 1 \\ \hline \times 1 \\ \end{array}$	80K	SF-240DKA	1	
			maintenance kit	Lower cleaning roller Cleaner blade Toner collection container Fusing separation pawl (Upper Fusing separation pawl (Lower Screen grid Charging plate unit Drum separation pawl unit Upper heat roller Lower heat roller	×1 ×4 ·)×4 ·)×2 ×1 ×1 ×1 ×1				
			maintenance kit	Lower cleaning roller Cleaner blade Toner collection container Fusing separation pawl (Upper Fusing separation pawl (Lower Screen grid Charging plate unit Drum separation pawl unit Upper heat roller Lower heat roller Toner reception seal	×1 ×4 ×1 ×4 ×1 ×2 ×1 ×1 ×1 ×1 ×1 ×1				
			maintenance kit	Lower cleaning roller Cleaner blade Toner collection container Fusing separation pawl (Upper Fusing separation pawl (Lower Screen grid Charging plate unit Drum separation pawl unit Upper heat roller Lower heat roller Toner reception seal DV seal	× 1 × 4 x) × 4 x) × 2 × 1 × 1 × 1 × 1 × 1				
			maintenance kit	Lower cleaning roller Cleaner blade Toner collection container Fusing separation pawl (Upper Fusing separation pawl (Lower Screen grid Charging plate unit Drum separation pawl unit Upper heat roller Lower heat roller Toner reception seal	×1 ×4 ×1 ×4 ×1 ×2 ×1 ×1 ×1 ×1 ×1 ×1				Common with the staple sort (SF-S51)

SF-2030						SF-2530	Remark	
Page	Item		(Content		Change		Remark
2-7		SEE	G, SUK, SCA,	SCNZ: SF-2530				'
		No.		Content	Life	Product name	Packing	Remark
		1	80K	Upper cleaning roller ×	-	SF-240KA	1	Distinguished from
				Lower cleaning roller ×				A3SF240KA for conformity of
				Cleaner blade ×				EAM code.
				Toner collection container ×				
				Fusing separation pawl (Upper) ×	4			
				Fusing separation pawl (Lower) ×				
				Screen grid ×				
				Charging plate unit ×	1			
				Drum separation pawl unit $\qquad \times$	1			
		2	160K	Upper heat roller ×	1 160K	SF-230KB	1	Distinguished from
			maintenance kit	Lower heat roller ×	1			A3SF230KB for conformity of
				Toner reception seal ×	1			EAM code.
				DV seal ×	1			
				Fusing gear ×	1			
		3		Staple cartridge (3 pcs) ×	1	SF-SC51	10	Common with the staple sort
								(SF-S51)
		4	Staple cartridge	Staple cartridge \times	5 5000 times	SD-LS20	10	Common with the staple sort
								(SF-S53)
		<u> </u>						$(SD-SC20) \times 5 = SD-LS20$
3-1	[3]	OPT	TIONS SPECIFIC	CATIONS	Model name cl	hange		
	[0]	0	1011001 2011 1	0,1110110		changed to SF	-S53N.	
					SF-S54/SF-S5			
					SF-S54N			
					SF-S54N/S	F-S56 are add	ded.	
					SF-S54N	۱ <u>~</u>		

			SF-2030	SF-2530	
No.	Page	Item	Content	Change	Remark
	Page	item	Content	Change	
	Page	Item	Content	Name Staple sorter Number of bins 20 bins Collection system Face up Capacity per bin Max. 50 sheets per bin (Top bin: 100 sheets) Collatable paper size/weight Max: A3 Min: B5 Normal paper (52 ~ 80g/m²)	
				Thick paper (81 ~ 200g/m²) Staplable sheets 50 sheets (80g/m2 paper), For of paper A3/B4, 25 sheets. Power source Supplied by the copier. Dimension 418mm (W) × 594mm (D) ×	
				624mm (H) Weight About 25kg	-
	4-1	[4]-1	External view	③ Front cover shape change	
				13	
	4-3	[4]-2	Operation panel	Illustration and table change	Refer to the separation sheet 4-3.
	4-8	[4]-7	BOARD LIST	Japan in ⑤ ⑥ is changed to Common. ⑤ Original sensing light emilting PWB Common ⑥ Orignal sensor light receve PWB Common ⑤ ⑥ illustration and list are added.	
	5-2	[5]-B		Model name change SF-S2030 is changed to SF-S2530. (5) (6) illustration and list are deleted.	
		[5]-B	B. SF-2030	Model name change SF-2030 is changed to SF-2530.	

No.	<u> </u>	SF-2030	SF-2530	Remark				
Page		Content	Change					
5-13	[5]-B-(3)	(3) SF-S53	Model name change SF-S53 is changed to SF-S53N.	SF-S53 is changed to SF-S53N.				
5-19 ~ 5-29	[5]-B-(4)	(4) SF-S52	 SF-S52 is deleted. SF-S56 is added. (Note) For installation of SF-S56, refer to the SF-S56 Service Manual. 					
5-39	[5]-B-(9)	(9) SF-DM11	 The following note is inserted into item B of "9. To check and adjust the matching guide." Enter "0" in SIM 52-3. (All destinations except for SEC/SECL.) 					
6-4	[6]-2	Manual feed multicopy unit	Illustration change (Refer to the figure below.) C Shift the spring to the position shown with the arrow.					
6-5	[6]-3	Paper feed unit	 PS clutch shape change PS clutch shape in Fig. (A) ~ (B) is changed. (Refer to the figure below.) 					
6-6	[6]-4	Transport baseplate unit	Paper stop clutch illustration change					
6-8	[6]-4	Transport baseplate unit	Clutch ② shape in Illustration ⑤ is changed. Changed to round shape.					

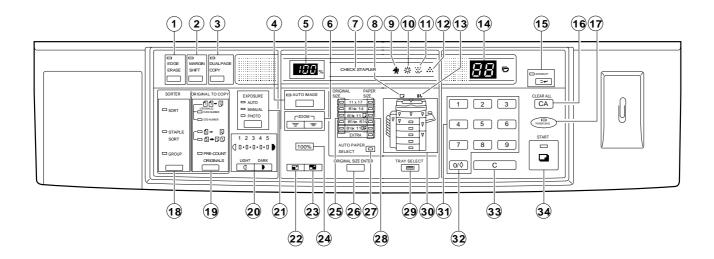
0.		SF-2030	SF-2530	Remark
Page	Item	Content	Change	Koman
6-16	[6]-8	Operation panel unit and document size sensor board (light receive side)	Flow chart change Procedures ®, ⑨, ⑩, and ⑪ of LCD unit delete procedures are deleted. Illustrations ⑧ ® are changed (Refer to the figure below.)	
			(B) (3) (4) (3) (4) (5) (6) (6) (6) (6) (6) (6) (6) (6) (6) (6	
			Illustration ① is added.	
			D 6	
6-17	[6]-8		Illustration is deleted.	
6-21	[6]-9	9. Optical unit Copy lamp unit installing position	The following note is added. * When the copy lamp unit is pressed onto the optical notch section, there must be a clearance of 2mm between the optical notch section and the No. 2/3 mirror base unit.	
			2mm 2mm	

No.			SF-2030	SF-2530	Remark
140.	Page	Item	Content	Change	Nemalk
			No. 2/3 mirror base unit installing position	Item ① is changed to the following content. ① Manually turn the mirror base drive pulley to press the copy lamp unit onto the optical notch section. If the clearance between the mirror base B and the optical notch section is 2mm both at the front frame side and at the rear frame side, the parallelism of mirror base B is proper and there is no need to adjust. If not, loosen the pulley fixing screw as shown below and move the pulley to adjust.	
	7-2	[7]-1-4	(4) Notes on installing various rollers of the developing unit	 Part code change φ8 V-ring PRNGP0013FCZZ is changed to PRNGP0051FCZZ. φ6 V-ring PRNGP0015FCZZ is changed to PRNGP0050FCZZ. The roller shown below is deleted. Insert C-ring into the figure of MG roller. (Refer to the figure below.) Rear V-ring Φ8 V-ring Φ8 Pront Roller name change Roller S (x1) is changed to Roller SS (x1). Roller MX is changed to Roller MXW. 	
	7-2	[7]-1-(5)	(5) Notes on applying the developing side seals (front and rear) Note for attaching developer side seals F/R Rear) (Front)	Side seal FN, PN shape change A (Rear) (Front)	
	7-17	[7]-4-3	3. Procedure for copy density adjustment	The following content is deleted. The following message is displayed on the LCD. AUTO EXPOSURE ADJUST. 1. 2. 3. STD 4. 5. ← LIGHTER DARKER →	

No. Pag 7-1 7-1	8 [7]-4-3	Content (6) Adjustment of copy density	The foll ME1 PE5	out value -				Remark			
		(6) Adjustment of copy density	The foll ME1 PE5	ME5	re of ③ i						
7-1	9 [7]-4-3		PE5		TQ1		 A. Output value -150V is changed to -215V. The following figure of ③ is deleted. 				
7-1	9 [7]-4-3		PE5		101	TS5	PE1				
7-1	9 [7]-4-3		LCD disp		AE5	AT1	AT5				
				lays (shov	n below)	are dele	ted.				
			ME1	ME5	TS1	TS5	PE1				
			PE5	AE1	AE5	AT1	AT5				
			ME1	ME	TS1	TS5	PE1				
			PE5	AE1	AE5	AT1	AT5				
			ME1	ME5	TS1	TS5	PE1				
			PE5	AE1	AE5	AT1	AT5				
			ME1	ME5	TS1	TS5	PE1				
			PE5	AE1	AE5	AT1	AT5				
			ME1	ME5	TS1	TS5	PE1				
			PE5	AE1	AE5	AT1	AT5				
				7121	7,20		71.0				
7-2	21 [7]-5-6	A. Adjustment when installing the machine	The follow added.	ving proce	dures (2)	and (3)	are				
				ition of SIM	Л 44 - 2.						
				sensor levard value:		ment					
				ition of SIN							
			_	density s ard value:		el adjusti	ment				
		B. Adjustment in maintenace within the life of supply part	 The following items in (1) are deleted. [+10] toner control A correction enable is deleted. 								
				changed to							
		D. Adjustment when replacing the drum (Photoconductor)		ures are on the contract of th		s follows	3.				
				hanged to							
				hanged to dded. (Ref		following	l				
			descrip	tion.)							
				cution of S density se		l adiustm	nent				
				rd value: 2		,					
		E. Adjustments when replacing the developer		ures are c		s follows	S.				
		and the drum (photoconductor)		hanged to hanged to							
			• (4) is a	dded. (Re		following	l				
			descrip	tion.) cution of S	SIM 44-3						
			Image	density se rd value: 2	nsor leve		nent				
7-2	24	(Trouble codes and countermeasures)	Standa	iu value. 2	.U4 ±1U						
8-1		[8] Simulation and diagnostics	Refer to t	he separa	te sheet.			Refer to the separate sheet 8-1 to 8-19.			

		SF-2030	SF-2530	Dam1-
No. Page	Item	Content	Change	Remark
9-7	[9]-4-(6)	(6) Paper-feed torque limiter 500-sheet cassette brake spring	Illustration shape change (Refer to the figure below.)	
		cassette brake spring	Brake spring Torque limiter	

2. Operation panel



		1		1	I
1	EDGE ERASE key and indicator	2	MARGIN SHIFT key and indicator	3	DUAL PAGE COPY key and indicator
4	AUTO IMAGE key	⑤	COPY RATIO display	6	ZOOM keys
7	CHECK STAPLER indicator	8	Paper required indicator	9	Maintenance required indicator
10	Developer replacement required indicator	11)	Toner collecting container full indicator	12	Toner required indicator
13	Misfeed indicator	14)	Copy quantity display	15)	INTERRUPT key and indicator
16	CLEAR ALL (CA) key	17	POWER SAVE indicator	18)	SORTER key and indicators
19	ORIGINAL TO COPY key and indicators	20	LIGHT and DARK keys and indicators	21)	EXPOSURE key and indicators
22	Reduction () key	23	Enlargement () key	24)	100% key
25	ORIGINAL SIZE indicators	26	ORIGINAL SIZE ENTER key	27)	AUTO PAPER SELECT indicator
28	PAPER SIZE indicators	29	TRAY SELECT key	30	Paper feed location/misfeed location indicators
31)	10-key pad	32	Zero/readout key	33	Clear (C) key
34)	START key and indicator				

[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

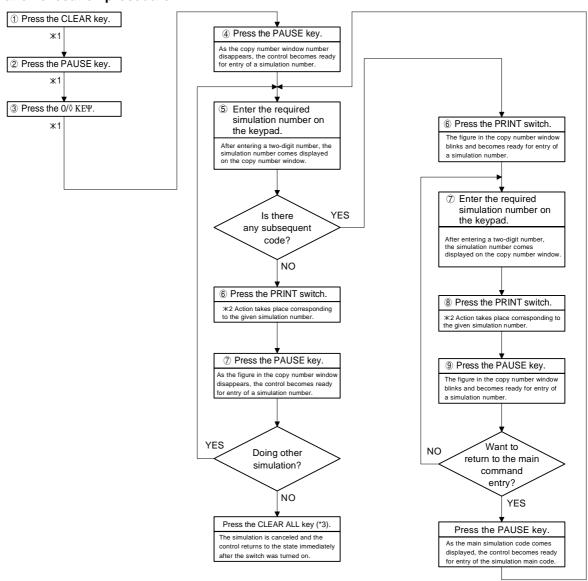
CLEAR ALL key: Simulation mode \rightarrow normal mode.

PAUSE key: Execution of simulation is interrupted.

CLEAR key: Clears the copy number window.

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

(3) Simulation execution procedure



List of the test commands

		est command					
Sim. NO	Sim. SUB		Description				
	01	Optical system n	nirror scanning check				
01	02	Optical system s	ensor state display				
	03	Lens movement	operation check				
	04	Lens aging					
	01	RADF aging					
	02	RADF sensor sta	ate display				
	03		Motor A forward rotation				
	04		Motor A reverse rotation				
02	05	RADF	Motor B forward rotation				
-	06	individual load	Motor B reverse rotation				
	07	operation	Belt clutch				
	80	check	Paper feed solenoid				
	09		Reverse solenoid				
	10		Stopper solenoid				
	11		Brake clutch				
	01	Sorter state disp	lay				
	02	Sorter sensor sta					
	03		Transport motor				
	04		Bin shift motor				
03	05	Sorter	Fan motor (SF-S15 only)				
	06	individual load	Gate solenoid				
	08	operation check	Staple motor (SF-S53 only)				
	09		Paper hold solenoid (SF-S53 only)				
	10		Guide bar motor (SF-S53 only)				
	02	Desk sensor sta	te display				
	03	1st cassette slot	, cassette size switch check (Desk)				
	04	2nd cassette slo (Desk)	t, cassette size switch check				
	05	3rd cassette slot	, cassette size switch check (Desk)				
	06		Transport motor				
	07		1st cassette slot, lift-up motor				
	08		2nd cassette slot, lift-up motor				
	09		3rd cassette slot, lift-up motor				
04	10		Transport clutch				
	11	Desk individual load	1st cassette slot, paper feed solenoid				
	12	operation check	1st cassette slot, paper feed clutch				
	13		2nd cassette slot, paper feed solenoid				
	14		2nd cassette slot, paper feed clutch				
	15		3rd cassette slot, paper feed solenoid				
	16		3rd cassette slot, paper feed clutch				
	01	Operation panel	display check				
05	02	Fuser lamp chec	ck				
	03	Copy lamp chec	k				
	04	BL/DL check					
06	02	Separation pawl	solenoid operation check				
		· · · · · · · · · · · · · · · · · · ·	·				

01 Warm-up time display and aging with jam detection 02 Aging without jam 03 Aging without jam without fusing 04 Warm-up disabled 06 Intermittent aging without jam 08 Warm-up time display (without aging) 07 Intermittent aging without jam 08 Warm-up time display (without aging) 01 Developer bias check 02 MHV 03 (Charge), grid Check 07 SHV (Separation) check 07 SHV (Separation) check 08 ADU sensor state display 09 ADU alignment plate aging 04 ADU alignment plate aging 05 Gate solenoid operation check 10 *** Toner motor aging 14 *** Cancel of troubles except U2, H2, H3, H4 16 *** Cancel of troubles except U2, H2, H3, H4 16 *** Cancel of U2 trouble code 17 *** PF trouble cancel 20 *** Maintenance counter clear 21 Off Maintenance counter display 22 Mini maintenance cycle setting 23 Jam memory display 24 Total jam counter display 25 Mini maintenance counter display (Japan), Developer counter display 26 Mini maintenance preset (Japan)/Developer preset (EX) counter display 10 Staple counter display 11 Developer adjustment time display 12 Drum adjustment time display 13 Developer counter display 14 Developer display 15 Trouble memory display 16 Cassette paper feed counter display (EX) 17 Developer iffe preset counter display (Japan) 18 Developer iffe preset counter display (EX) 24 ADF/RADF counter display (Japan) 35 Staple counter display (Japan) 36 Developer iffe preset counter display (EX) 37 Developer iffe preset counter display (EX) 38 Developer iffe preset counter display (EX) 39 Duplex counter clear 30 Duplex counter clear 31 Developer adjustment time clear 32 Trouble memory clear 33 Duplex counter clear 34 ADF/RADF counter clear 35 Staple counter clear 36 Developer adjustment time clear 37 Drum adjustment time clear	Sim. NO	Sim. SUB	Description
03		01	Warm-up time display and aging with jam detection
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08 Lens focus setting 09 4/5 mirror characteristics setting 10 AE original density setting 24 Margin position setting 25 Standard state setting of duplex copy from even-number single copy 27 01 PPC communication trouble 30 01 Paper sensor state display 02 Cassette size switch state display 42 ** Developer counter clear 43 ** Fusing temperature setting 01 Correction mode setting, 02 Drum mark sensor sensitivity adjustment 03 Image density sensor sensitivity adjustment 05 Half tone density correction test mode 44 06 Half tone density correction compulsory execution mode 07 DM/ID sensor gain select switch 09 Half tone density correction measurement data display 11 Operation setting at grid bias 12 Copying without half tone density correction 46 01 Exposure level adjustment 47 ** AE sensor characteristics setting 48 01 Front/rear magnification ratio adjustment, focus adjustment 48 02 Paper transport direction magnification ratio adjustment (scanner speed) 50 Lead edge image position adjustment, lead edge void adjustment (Calculation) 51 02 Paper buckle adjustment 51 02 Paper buckle adjustment 52 02 ADU trail edge plate adjustment value setting		06	Destination setting
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10 AE original density setting 24 Margin position setting 25 Standard state setting of duplex copy from even-number single copy 27 01 PPC communication trouble 30 01 Paper sensor state display 42 ** Developer counter clear 43 ** Fusing temperature setting 44 01 Correction mode setting, 45 Drum mark sensor sensitivity adjustment 46 06 Half tone density correction test mode 47 DM/ID sensor gain select switch 48 12 Copying without half tone density correction 49 Half tone density correction measurement data display 40 Depration setting at grid bias 41 Copying without half tone density correction 46 01 Exposure level adjustment 47 ** AE sensor characteristics setting 48 01 Front/rear magnification ratio adjustment, focus adjustment 48 02 Paper transport direction magnification ratio adjustment (Scanner speed) 49 Lead edge image position adjustment, lead edge void adjustment (Calculation) 40 Paper buckle adjustment 41 O2 Paper buckle adjustment value setting 42 ADU trail edge plate adjustment value setting		08	Lens focus setting
24 Margin position setting 25 Standard state setting of duplex copy from even-number single copy 27 01 PPC communication trouble 30 01 Paper sensor state display 02 Cassette size switch state display 42 ** Developer counter clear 43 ** Fusing temperature setting 01 Correction mode setting, 02 Drum mark sensor sensitivity adjustment 03 Image density sensor sensitivity adjustment 05 Half tone density correction test mode 06 Half tone density correction compulsory execution mode 07 DM/ID sensor gain select switch 09 Half tone density correction measurement data display 11 Operation setting at grid bias 12 Copying without half tone density correction 46 01 Exposure level adjustment 47 ** AE sensor characteristics setting 48 01 Front/rear magnification ratio adjustment, focus adjustment 48 02 Paper transport direction magnification ratio adjustment (Calculation) 04 Lead edge image position adjustment, lead edge void adjustment (Calculation) 05 Paper buckle adjustment 06 Paper buckle adjustment value setting 07 ADU alignment plate adjustment value setting		09	4/5 mirror characteristics setting
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102 Cassette size switch state display	27	01	PPC communication trouble
1	30	01	Paper sensor state display
43 ** Fusing temperature setting	30	02	Cassette size switch state display
1 Correction mode setting, 10 Drum mark sensor sensitivity adjustment 10 Image density correction test mode 10 Image density correction compulsory execution mode 10 Image density correction compulsory execution mode 10 Image density correction compulsory execution mode 11 Image density correction measurement data display 12 Image density correction measurement data display 13 Image density correction measurement data display 14 Image density correction measurement data display 15 Image density correction measurement data display 16 Image density correction measurement data display 17 Image density sensor sensitivity adjustment data display 18 Image density sensor sensitivity adjustment data displayment displayment density adjustment data displayment density adjustment, focus adjustment displayment, focus adjustment displayment, lead edge void adjustment (Calculation) 18 Image density sensor sensitivity adjustment, density adjustment, focus displayment displayment, focus adjustment, focus adjustment (Calculation) 18 Image density sensor sensitivity adjustment, focus displayment (Sanurement) 19 Image density sensor sensitivity adjustment data displayment data displayment, focus displayment, focus adjustment, focus adjustm	42	**	Developer counter clear
Drum mark sensor sensitivity adjustment 03	43	**	Fusing temperature setting
1		01	Correction mode setting,
144 06 Half tone density correction test mode 156 Half tone density correction compulsory execution mode 157 DM/ID sensor gain select switch 158 Half tone density correction measurement data display 159 display 160 Operation setting at grid bias 170 Copying without half tone density correction 170 Exposure level adjustment 170 AE sensor characteristics setting 180 Paper transport direction magnification ratio adjustment (scanner speed) 180 Copying without half tone density correction 180 Pront/rear magnification ratio adjustment, focus adjustment 180 Paper transport direction magnification ratio adjustment (scanner speed) 180 Lead edge image position adjustment, lead edge void adjustment (Calculation) 180 Paper buckle adjustment (Measurement) 180 Paper buckle adjustment value setting 180 ADU trail edge plate adjustment value setting		02	Drum mark sensor sensitivity adjustment
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display 11 Operation setting at grid bias 12 Copying without half tone density correction 46 01 Exposure level adjustment 47 ** AE sensor characteristics setting 18 O1 Front/rear magnification ratio adjustment, focus adjustment 19 Paper transport direction magnification ratio adjustment (scanner speed) 10 Lead edge image position adjustment, lead edge void adjustment (Calculation) 10 Lead edge image position adjustment, lead edge void adjustment (Measurement) 10 Paper buckle adjustment 11 O2 Paper buckle adjustment value setting 12 O2 ADU trail edge plate adjustment value setting		07	DM/ID sensor gain select switch
12 Copying without half tone density correction 46 01 Exposure level adjustment 47 ** AE sensor characteristics setting 01 Front/rear magnification ratio adjustment, focus adjustment 02 Paper transport direction magnification ratio adjustment (scanner speed) 10 Lead edge image position adjustment, lead edge void adjustment (Calculation) 10 Lead edge image position adjustment, lead edge void adjustment (Measurement) 11 Dead edge image position adjustment, lead edge void adjustment (Measurement) 12 Paper buckle adjustment 13 DU alignment plate adjustment value setting 14 DU trail edge plate adjustment value setting		09	
46 01 Exposure level adjustment 47 ** AE sensor characteristics setting 01 Front/rear magnification ratio adjustment, focus adjustment 02 Paper transport direction magnification ratio adjustment (scanner speed) 10 Lead edge image position adjustment, lead edge void adjustment (Calculation) 10 Lead edge image position adjustment, lead edge void adjustment (Measurement) 11 O2 Paper buckle adjustment 12 O2 ADU trail edge plate adjustment value setting 13 O2 ADU trail edge plate adjustment value setting		11	Operation setting at grid bias
47 ** AE sensor characteristics setting 10 Front/rear magnification ratio adjustment, focus adjustment 10 Paper transport direction magnification ratio adjustment (scanner speed) 10 Lead edge image position adjustment, lead edge void adjustment (Calculation) 10 Lead edge image position adjustment, lead edge void adjustment (Measurement) 11 O2 Paper buckle adjustment 12 ADU alignment plate adjustment value setting 13 ADU trail edge plate adjustment value setting		12	Copying without half tone density correction
48 01 Front/rear magnification ratio adjustment, focus adjustment 02 Paper transport direction magnification ratio adjustment (scanner speed) 10 Lead edge image position adjustment, lead edge void adjustment (Calculation) 10 Lead edge image position adjustment, lead edge void adjustment (Measurement) 11 O2 Paper buckle adjustment 12 O2 ADU trail edge plate adjustment value setting 13 O2 ADU trail edge plate adjustment value setting	46	01	Exposure level adjustment
48	47	**	AE sensor characteristics setting
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50 void adjustment (Calculation) 102 Lead edge image position adjustment, lead edge void adjustment (Measurement) 103 Paper buckle adjustment 104 ADU alignment plate adjustment value setting 105 ADU trail edge plate adjustment value setting	40	02	, ,
Description Lead edge image position adjustment, lead edge void adjustment (Measurement)	50	01	
52 ADU trail edge plate adjustment value setting 52 ADU trail edge plate adjustment value setting	30	02	
52 02 ADU trail edge plate adjustment value setting	51	02	Paper buckle adjustment
02 Abo trail eage plate adjustment value setting		01	ADU alignment plate adjustment value setting
03 ADU drive clutch OFF time setting	52	02	ADU trail edge plate adjustment value setting
		03	ADU drive clutch OFF time setting

Sim. NO	Sim. SUB		Description
	01	DADE eten	Normal paper, Single copy
	02	RADF stop position	Normal paper, Duplex copy
	03	adjustment	Thin paper, Single copy
53	04		Thin paper, Duplex copy
	05	RADF resist sen	sor adjustment
	06	RADF timing ser	nsor adjustment
	07	RADF repulsion	sensor adjustment
	08	RADF empty ser	nsor adjustment

Main code	Sub code			Des	cription		Ref. Page
01	01	(1) With depression of execute it. The REA change the zoom m (2) When the PRINT k command starts to (3) If the door is opene	the PAUSE key, ADY pilot lamp (I ode using the Z ey is pressed v execute. The mild while the oper	the contro RPL) come OOM key. while the F rror base nation is in	es active with the zoom rate RPL is active, the status lanoves to scan in the zoom	amand mode to be ready to io at 100%. It is possible to amp turns off and the test ratio at that time. hterrupted with status "CH"	
	02				•	e test command starts and action of a optical system	
		Display			Active status lamp		
		MENTEL (Maintenance		Mirror ro	tary encoder pulse (RE) inp	out	
		TNEL (Waste toner full			me position sensor		
		DVPL (Developer mair	ntenance lamp)	Lens hor	ne position sensor		
		TPL (Toner empty lam	p)	No.4/5 m	irror home position sensor		
	03	Used to test the zoom le The zoom ratio is disp		om ratio w	indow.		
		AB series machine	A		70% — ➤ 81% — ➤ 86		
		Inch series machine	A		64% → 77% → 99 4 141% ← 200%		
	04	Used to test the zoom le Test command 01-03					
02	01	Used to test the action manually turned on.	of the RADF.	The aging	test starts when the doc	ument presence sensor is	
	02	This is the test command By pressing 10-key, a de			ors. On/off state of sensor of ted.	can be manually tested.	
		10-key position	0		1	2	
		TPL (Toner empty)	Docume presence/empty DSD		DF section open/close detection AUOD	Document width detection DWS1	
		TNFL (Waste toner full lamp)	Document pre feed detect DFD	•	Paper feed section open/close detection FGOD	Document width detection DWS2	
		DVPL (Developer maintenance lamp)	Document exit of RDD	detection	Reverse section open/close detection TGOD	Document width detection DWS3	
		MENTEL (Maintenance lamp)	DTD		Document length detection DLS3	Document width detection DWS4	
		JPL	Document pas	ss width	Empty sensor 1	Document length detection	
		(Jam empty)	detection DWS	on	DED1	DLS1	
		PPL (Paper empty lamp)			Empty sensor 2 DED2	Document length detection DLS2	
		Reverse display: Paper	presence/Door o	pen, Nor	mal display: No paper/Doc	or closed	
	03	Used to test the action of Motor A forward rotation	•	ual load ch	eck)		
	04	Motor A revere rotation					
	05	Motor B forward rotation					
	06	Motor B revere rotation					
	07	Belt clutch (Staple sorte	• • • • • • • • • • • • • • • • • • • •				
-	08	Paper feed solenoid (Sta	aple sorter only)				
-	09	Inversion solenoid					
	10	Stopper solenoid Brake clutch					
	11	DIAKE CIUICII					

Main code	Sub code		Desc	ription		Ref. Page
03	01	Sorter operation check (Only		•		
	02	This is the test command used On/off state of sensors can be By pressing 10-key during exe (When S15 installed)	manually tested.		e selected.	
		Position/10-key	0	1	2	
		TPL Pa	aper entry detection (Non sort) PES	Indexer upper limit detection IULS	Sorter set detection SJS	
		TNFL (Waste toner full lamp)		Indexer lower limit detection ILLS	Top cover open/close detection UCSW	
		DVPL P (Developer maintenance lamp)	aper exit detection PWB-S	Indexer (bin) home position detection IHS	Blower cover open/close detection FCSW	
		MENTEL (Maintenance lamp)	_	Indexer (bin) fixed position detection IPS	_	
		JPL (Jam lamp) PPL	_	_	_	
		(Paper empty lamp)	_	_	_	
		(When S52 installed)				
		Position/10-key	0	1	2	
		TPL (Toner empty)	Pass sensor	Jogger sensor	Sorter set detection	
		TNFL (Waste toner full lamp)	Bin home sensor	Paper edge sensor	Top cover open/close detection	
		DVPL (Developer maintenance lamp)	Bin cam sensor	Staple cam switch	Blower cover open/close detection	
		MENTEL (Maintenance lamp)	Paper sensor 1	Staple needle sensor	_	
		JPL (Jam lamp) PPL	Paper sesnor 2	_	_	
		(Paper empty lamp)	_	_	_	
		(When S18 installed)				
		Position/10-key	0	1	2	
		TPL (Toner empty)	Entry port sensor	_	_	
		TNFL (Waste toner full lamp)	Paper empty sensor	_	_	
		DVPL (Developer maintenance lamp)	Upper limit sensor	_	_	
		MENTEL (Maintenance lamp)	Lower limit sensor	_	_	
		JPL (Jam lamp)	Paper sensor 2	_	_	
		PPL (Paper empty lamp)	Paper take-out senso	_	_	

Main code	Sub code	(When S54 installed)	Descrip	tion		Ref.				
		Position/10-key	0	1	2					
		TPL (Toner empty)	Entry port sensor	Alignment rod home sensor						
		TNFL (Waste toner full lamp)	Paper empty sensor	Gripping home sensor	_					
		DVPL (Developer maintenance lamp)	Upper limit sensor	Stapler home sensor	_					
		MENTEL (Maintenance lamp)	Lower limit sensor	Stapler paper sensor	_					
		JPL (Jam lamp)	Paper sensor	Stapler near sensor	_					
		PPL (Paper empty lamp)	Paper take-out sensor	_	_					
		(When S56 installed)								
		Position/10-key	0	1	2					
		TPL (Toner empty)	Staple door switch	Lead cam sensor	Staple cue sensor					
		TNFL (Waste toner full lamp)	Joint switch	Stapler home position	Staple sensor					
		DVPL (Developer maintenance lamp)	Paper exit sensor	24V sensor	Bin upper paper sensor					
		MENTEL (Maintenance lamp)	Stapler oscillation home position	Staple cartridge sensor	DIP switch 01					
		JPL (Jam lamp)	Alignment rod home position sensor	Staple cartridge sensor	DIP switch 02					
		PPL (Paper empty lamp)	Bin unit home position sensor	Stapler foreign material sensor	DIP switch 03					
		Position/10-key TPL (Toner empty)	4 DIP switch 04							
		TNFL (Waste toner full lamp)	DIP switch 05							
		DVPL (Developer maintenance lamp)	DIP switch 06							
		MENTEL (Maintenance lamp)	Push switch 02							
		JPL (Jam lamp)	Push switch 03							
		PPL (Paper empty lamp)								
	03	Used to test the components of the sorter (individual load check).								
	04	Transport motor rotation (When SF-S56 is installed, this simulation is disabled.) Indexer motor rotation (returns to the home position at first, then stops at each bin location Bin 1 to Bin 21, moving up and down. Sorter bin moving. (Bin motor rotation when SF-S54 is installed) (When								
		SF-S56 is installed, this simul	ation is disabled.)							
	05	Fan motor rotation in the case	• • • • • • • • • • • • • • • • • • • •	SF-S56 is installed, this s	imulation is disabled.)					
	06 08	Gate solenoid ON (SF-S15/18 Stapler motor rotation (the parallel (M/han SE	aper is stapled once wh		ne stapler tray). (SF-S53					
}	00	only) (When SF-S54 is installed Paper holder solenoid operation		auon)						
	09 10	Guide motor operation check	· · · · · · · · · · · · · · · · · · ·							
	10	Guide motor operation check	(Cir-OSS Grily)							

Main code	Sub code		Des	cription		Ref. Page						
04	02		nd used to test sensors in t	ne desk. On/off state of the	the sensors can be manually							
		tested. When a sensor turns on	the display reverses									
		When a sensor turns on, the display reverses. 10-key position 0 1 2										
		TPL	71									
		(Toner empty)	DPOD1	sensor DLUD1	detection DPE1							
		TNFL (Waste toner full lamp)	Upper paper exit sensor DPOD2	Medium cassette lift up sensor DLUD2	Medium cassette paper detection DPE							
		DVPL (Developer maintenance lamp) MENTEL	Lower paper sensor DPOD3	Lower cassette lift up sensor DLUD3	Lower cassette paper detection DPE3							
		(Maintenance lamp) JPL (Jam lamp) PPL	Door open/close detection									
		(Paper empty lamp)	DDOP									
	03	When the switch turns o (Cassette size board)	iewed from the front frame	e switch of the desk.								
		TNFL (Waste toner full	I lamp) C	SSW2								
		DVPL (Developer main MENTEL (Maintenance	1.7	SSW3 SSW4								
		WEIVIEZ (Wainterland	o lamp)									
		Paper exit side◀		SSW1	aper entry side							
	04	Used to test the on/off state of the second cassette size switch of the desk. Function is identical to the test command 04-03. When the switch is turned on, the display reverses.										
	05	Used to test the on/off s command 04-03.	tate of the third cassette si	ze switch of the desk. Fun	ction is identical to the test							
	06	When the switch is turned on, the display reverses.										
		Transport motor rotation. (Desk) Motor turns off when detected the upper limit of the first cassette lift up motor rotation. (Desk)										
	07		or turns off when detected the upper limit of the first cassette lift up motor rotation. (Desk). or turns off when detected the upper limit of the second cassette lift up motor rotation. (Desk)									
	09		tected the upper limit of the									
	10	Activate transport clutch	· · · · · · · · · · · · · · · · · · ·	uma cassette iiit up iii0t0i	rotation. (Desk)							
	11		aper feed solenoid of the de	esk								
	12		ch of the first cassette of th									
}	13		e paper feed solenoid of th									
	14		ch of the second cassette of									
	15	1 1	aper feed solenoid of the d									
}	16	· .	ch of the third cassette of the									
05	01	All LED's on the operati	on panel are turned on for		ute, the machine automat-							
	02	ically goes into the sub of this is the test comman	code input wait state. d used to test the heater la	mp. Heater lamp turned or	and off five times							
	\ 	C	ON		. aa on mo amos.							
			ON DFF	1								
		HL F	+500msec →	I								
		The heater turns on and	off in the order shown abo	ve.								

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. ON	
		PR PR	
		Use care not to damage originabN cover or RADF belt. CI	
		Coron of the Coron	
		0.5 1 0 6 25	
		* 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 test with alert for paper misfeed 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 by disregarding paper jam. (Warm up time check is similar to SIM 7-1.)	
	03	Aging without jam without fusing Similar to SIM 7-1. Aging is performed by saving the warm up time and disregarding the heater system trouble functions and paper jam. (The heater lamp does not turn on.)	
	04	Saving warm up Warm up time is saved to check operations of the machine. When this simulation is executed, RPL turns on to allow the operation check of the machine. When the heater section is at low temperature, the heater low temperature may be sensed and H4 may be displayed.	
	06	Intermittent aging	
	07	Intermittent aging without jam	
	80	Warm up time display (without aging) (Warm up time check is similar to SIm 7-1.)	
08	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 –215±10V.	[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 -650±5V. 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 -440±5V.	[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 –550V±5V.	[7]-5-(D)

Main code	Sub code		Desci	ription	Ref. Page
08	06	code input wait state.	ivering the o	output, the machine automatically goes into the sub er corona output (THV). The transfer corona output	[7]-4-(B)
		THV	30 sec		
			=	, , , , , ,	
	07	input wait state.	ng the outpu	ference: Max. 5μA). t, the machine automatically goes into the sub code ration corona output (SHV). The separation corona	[7]-6-(E)
		SHV	30 sec		
		Standard separation corona output is 0±	-10 V		
09	02	ADU sensor check test command ON/O When the sensor turns on, the display re	FF state of e	each sensor can be manually checked.	
		Position	Sensor	Function	
		TPL (Toner empty)	DPPD1	ADU transport sensor 1	
		TNFL (Waste toner full lamp)	DPPD2	ADU transport sensor 2	
		DVPL (Developer maintenance lamp)	DTPID	ADU tray sensor	
		MENTEL (Maintenance lamp)	DPFD	ADU tray out sensor	
		JPL (Jam lamp)	APHPS1	ADU alignment plate home position sensor	
		PPL (Paper empty lamp)	APHPS2	ADU rear edge plate home position sensor	
		(AB series) HP.A3 → B4 → A4R → B5R → (Inch series) HP.11" x 17" → 11" x 14" → 8½"			
	04	ADU alignment plate drive motor rotation • Used check the alignment plate move (AB series) HP.A3 → B4 → A4R → B5R → (Inch series) HP.11" x 17" → 11" x 14" → 8½"	ment → A4 —→		
	05	Gate solenoid activation Used to check the gate solenoid operation	on.		
10	_	Toner motor activation Used to check the toner motor activation	۱.		
14	_	Trouble code cancellation This is the test command used to cance been removed, the test command termin		the "U2" trouble (H2, H3, H4). After the trouble has	
16	_	U2 trouble code cancellation This is the test command used to cancel After the trouble code has been removed			
17	_			PC/Modem when the copy inhibition command from buble, the test command is automatically cancelled.	
20	_	Maintenance counter clear 1. Clear 2. Not clear When the main code is entered, the st mode for entry of conditions. Select 1 or a select 1 or a select 1.	aple check 2 with 10-ketenance pre	lamp turns on and the machine enter the standby by. After selection, the staple check lamp goes off. set counter to "0" after completion of maintenance.	

Main code		b code							Descrip	otion						R	ef. Page
21		01		enance to set th		etting tenance	cycle.										
			Cod	de	Ма	aintenan	ce cycle										
				0		80,000	sheets										
			1 · · · · · · 5,000 sheets														
				2 · · · · · · · · 10,000 sheets													
						20,000											
						40,000	sheets										
				5													
								displaye		copy q	uantity c	lisplay.					
22		01				cycle se aintenar		pan only)								
					111111111111	annena	ice cyci	.									
			Cod			80,000	ahaata										
						5,000											
						10,000											
			The ir			et as "1."	3110013										
			The c	ode nun	nber is	displaye	d on the	copy qu	antity di	splay.							
		02				et counte											
			Thi	s test co	mman	d is used	to chec	k the co	ntents o	the ma	intenand	ce prese	t cycle c	ounter.			
		03				ay (JAM											
								JAM occ , press t				d key.					
			MFT			anual fee	ed										
			1CS			cassette											
				2CS 2													
				3CS 3													
			4CS		4												
			5CS		5												
			ADL		ΑI	DU											
				JAM													
			OFF	JAM													
JAM	COD	E: XX															
		0	1	2	3	4	5	6	7	8	9	A	В	С	D	Е	F
1 Ma	anual feed			_		PPD2 not							-		_	_	
Ma	achine					reached PPD2 not	PPD1 not										
2 up	per step					reached	reached										
Ma	CS) achine					PPD2 not	PPD1 not	PID not									
	wer step					reached	reached	reached									
						PPD2 not	PPD1 not	PID not									
Machine (2)	esk top					reached	reached PPD1 not	reached									
Machine paper per feed ste	ep (3CS)					DDD0 not		DID not									
Machine (2) paper De ste	ep (3CS) esk edium					PPD2 not reached	reached	PID not reached									
Machine (2) paper De ste	ep (3CS) esk edium ep (4CS)																
Machine (2)	ep (3CS) esk edium ep (4CS) CC esk lower					reached PPD2 not	reached PPD1 not	reached PID not									
Machine paper feed Steed	esk edium ep (4CS) CC esk lower ep (5CS)					reached	reached	reached	DPFD not								
Machine (2)	ep (3CS) esk edium ep (4CS) CC esk lower ep (5CS)					PPD2 not reached	PPD1 not reached	reached PID not	DPFD not reached								
Machine (2)	esk edium ep (4CS) CC esk lower ep (5CS)	DPPD2 not reached	DPPD1 not reached	POD not reached	PSD not reached	PPD2 not reached PPD2 not	PPD1 not reached PPD1 not	reached PID not									
Machine (2)	ep (3CS) esk edium ep (4CS) CC esk lower ep (5CS)					PPD2 not reached PPD2 not	PPD1 not reached PPD1 not	reached PID not		DPPD2 not	DPPD1	PDD	PSD	PPD2	PPD1	PID	
Machine (2)	ep (3CS) esk edium ep (4CS) CC esk lower ep (5CS) DU N JAM		reached	reached	reached	PPD2 not reached PPD2 not	PPD1 not reached PPD1 not	reached PID not		DPPD2 not reached	DPPD1 remaining	PDD remaining	PSD remaining	PPD2 remaining	PPD1 remaining	PID remaining	
Machine (2)	ep (3CS) esk edium ep (4CS) CC esk lower ep (5CS) DU N JAM	reached				PPD2 not reached PPD2 not reached	PPD1 not reached PPD1 not	reached PID not									
Machine (2)	ep (3CS) esk edium ep (4CS) CC esk lower ep (5CS) DU N JAM EF JAM DF	reached	reached Preliminary	reached	reached	PPD2 not reached PPD2 not reached	PPD1 not reached PPD1 not	reached PID not									
Machine (2)	ep (3CS) esk edium ep (4CS) CC esk lower ep (5CS) DU N JAM	reached	reached Preliminary	reached	reached	PPD2 not reached PPD2 not reached	PPD1 not reached PPD1 not	reached PID not									
Machine (2)	ep (3CS) esk edium ep (4CS) CC esk lower ep (5CS) DU N JAM EF JAM DF	Sorter Desk PPD1 ON and PPD2	Preliminary paper feed POD ON and PPD2	Paper feed DPFO ON and PPD1	reached	PPD2 not reached PPD2 not reached	PPD1 not reached PPD1 not	reached PID not									
Machine (2)	ep (3CS) esk edium ep (4CS) CC esk lower ep (5CS) DU N JAM EF JAM DF	Sorter Desk PPD1 ON and PPD2 OFF before 1CS paper	Preliminary paper feed POD ON and PPD2 OFF before 2CS paper	Paper feed DPFO ON and PPD1 ON and PPD2 OFF	reached	PPD2 not reached PPD2 not reached	PPD1 not reached PPD1 not	reached PID not									
Machine (2)	ep (3CS) esk edium ep (4CS) CC esk lower ep (5CS) DU N JAM EF JAM DF	Sorter Desk PPD1 ON and PPD2 OFF before	Preliminary paper feed POD ON and PPD2 OFF before	Paper feed DPFO ON and PPD1 ON and	reached	PPD2 not reached PPD2 not reached PPD2 not reached	PPD1 not reached PPD1 not	reached PID not									
Machine (2)	ep (3CS) esk edium ep (4CS) CC esk lower ep (5CS) DU N JAM EF JAM DF	Sorter Desk PPD1 ON and PPD2 OFF before 1CS paper	Preliminary paper feed POD ON and PPD2 OFF before 2CS paper	Paper feed DPFO ON and PPD1 ON and PPD2 OFF before ADU	reached	PPD2 not reached PPD2 not reached PPD2 not reached	PPD1 not reached PPD1 not	reached PID not									

Main code	Sub code	Description	Ref. Page				
22	04	Total misfeed counter display					
	05	This counter is used to show the total copy number of the machine					
	06	This counter is used to show the total copy number of the machine.					
	06	Developer counter display (EX) The contents of the copy number counter of the installed developing unit is displayed. Mini maintenance counter display (Japan only)					
	07	 Developer preset cycle counter display (EX) Number of developer replacements and the reset counter contents of the installed developing unit are displayed. Mini maintenance preset counter display (Japan only) 					
	08	RADF counter display Used to check the number of originals fed through the 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 use 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.					
	15	 Trouble memory display When the sub code is entered, the latest trouble main code is displayed on the copy quantity display. Press the Enter key to display the previous ones. When the PSW is pressed with the trouble main code displayed, the trouble code corresponding to that main code is displayed. When the sorter key is kept pressing for 3 sec or more, the trouble counter value is displayed on the copy quantity display. 					
	16	 Cassette paper feed counter display Select the paper feed destination with the tray select key, and the counter value corresponding to the selected paper feed destination is displayed by 2 digits on the copy quantity display. 					
	17	 Developer counter display (Japan only) The content of the copy quantity counter of the DV unit installed is displayed. 					
	18	 Developer life preset counter (Japan only) The content of the developer replacement quantity preset counter of the DV unit installed is displayed. 					
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 is reset to the duplex unit. It is mandatory to clear the memory contents after the maintenance is completed. 					
	04	 RADF counter clear The contents of the copy number counter is reset for the RADF. 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.					
	07	Drum adjustment time clear The drum adjustment time is cleared to zero.					
	08	Tray paper feed counter clear Delete by entering the code.					
		1 Manual feed counter delete					
		2 1CS counter delete					
		3 2CS counter delete					
		4 3CS counter delete					
		5 4CS counter delete					
		6 5CS counter delete					
		7 AX counter delete					
25	01	Main motor activation					
20	, . 	Used to check malfunction in the main motor drive train. (Rotates for 3 min.) Also, monitors the toner density sensor. (Sensor output value display)					
		$\boxed{ \texttt{C} \rightarrow \texttt{=.l} \rightarrow \texttt{0} \rightarrow \texttt{=.l} \rightarrow \texttt{2} \rightarrow \texttt{5} \rightarrow \texttt{PSW} \rightarrow \texttt{1} \rightarrow \texttt{PSW} }$					

Main code	Sub code	Description	Ref. Page						
25	Automatic developer adjustment 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							
		$\begin{array}{c c} & & & & \\ & & & & \\ & & & & \\ \hline \\ \hline \\ \hline$							
	06	Toner control A count number setting Used to set the max. number of toner control corrections. Grid correction amount setting for toner control A							
	07	Grid correction amount setting for toner control A Used to set the absolute value of the toner control reference value.							
26	01	 Option unit setup Used to set up option unit. ① When the test command is executed, the presently stored machine setup code is displayed with the READY lamp turned on. ② 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 READY lamp turns off. 							
		Code Option +1 RADF +2 ADU [Auto setting] +4 Desk +10 Sorter							
		 No need to set "+2 (ADU)". If the ADU is installed, "2" is automatically added. Used to set the code that corresponds to an option unit. (EX): To set the RADF and desk together with ADU, enter 1+2+4=7, or 1+4=5. NOTES: Be sure to enter the code that corresponds to the installed option unit. If option setup is incorrect, a trouble code is displayed. See the trouble code chart. 							
	03	Coin vendor setting 0: Cancel, 1: Setting (Note) When a coin vendor is installed, select "1. Setting."							
	05	Counter mode setup ① When the test command is executed, the code of the presently stored mode is displayed with the READY lamp turned on. ② 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.							
		Code Total counter Maintenance counter 0 Double count Double count 1 Single count Double count 2 Double count Single count 3 Single count Single count							

Main code	Sub code	Description	Ref. Page
26	06	Destination setup Used to set the destination setting. ① When the test command is executed, the presently stored model number and the destination code are displayed (see table below) and the READY lamp turns on. ② After the READY lamp has turned on, enter the model number and the destination code on the keypad and press the PRINT switch to store the setting in the memory. The READY lamp then turns off.	
		Code Destination AB/Inch	
		0 SEC (ES) America 1 SEC America 2 SECL Canada 3 Other	
		4 Japan (AB Japan) 5 Other 6 SEEG German	
		7 SUK U.K. 8 SCA Australia 9 Other (AB Export)	
		10 BW-UT1 Taiwan	
	08	 When the test command is executed, the number stored in the memory is recalled and the READY lamp turns on. A number 1 to 3 may be entered on the keypad while the RPL is active. Press the PRINT switch after the number has been entered. With this, the READY lamp turns off and the test command number is displayed. Drum Keypad entry 1 2 3 Sensitivity 1 2 3 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. 	[7]-10-(6)
		To avoid focus problem, the class of the lens focal distance (refer to chart on page 7-11) is stored in the 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) ① When the test command is executed, the presently stored preset code is displayed and the READY lamp turns on. ② After the READY lamp turned on, enter the lens number shown on the top of lens area and press the PRINT switch to store the value in the memory. The READY lamp now turns off. C → □→ → 0/◊ → □→ 2 → 6 → PSW → 8 → PSW → 1 → 4 → PSW	
	09	4/5 mirror characteristics entry (at a time of lens replacement) (Setup method (26-09) ① Set the correction value for lens marked value based on "lens value vs. test command input." Press C → □→ ○/○ → □→ 2 → 6 → PSW → 9 → PSW keys to execute the test command 26-09. As the READY lamp turns on, the previously set value 1 to 21) is shown. ② Enter the new value on the keypad. EX: If the value shown on the lens is +1, 2, pick up "14." Press the 1 → 4 → PSW keys. A figure 0 to L is shown on the lens value label. 82525 No. 114191	[7]-10-(6)
		O-L +1.2	

Main code	Sub code			Description	on			Ref. Page	
26	10	AE original density sett	ina					- I some sign	
		Used to set the original density. (Set value: 1 ~ 9) Default: 2 Set to 9 if the density is extremely low.							
	24	Margin position setting This simulation is used to set the margin position when margin copy is executed.							
		Set value Content							
		0	Left margin						
		1 F	Right margin						
	25	Standard state setting from even-number single copy to duplex copy							
		Set value	Content						
		0 Fro	m single to duple	×					
			en-number single						
		The duplex mode when	n the poser is tur		n the CA	A (auto clear) key i	s pressed is set fro	m	
27	01	even-number single to PPC communication tro							
		0: PPC commun	ication trouble	No display	1				
		1: PPC commun		Displayed					
		1. FFC commun	ication trouble	Displayed	j				
30	01	Monitoring main unit pa Copier paper sensor C (Lighted at ON)		necked with the	paper j	am lamp and pape	er feed position lam	p.	
			PID						
			PPD1						
			PPD2						
		Ů.	PSD						
			POD						
			TFD						
		⑦ JL7	_						
		8 JL8	_						
		Ů.	PED1						
		0	PED2						
		① CSL3 F	PED3						
		① JPL l	_UD1						
		① PPL l	LUD2						
30	02	Monitoring paper casse	tto oizo						
30	02	Use the cassette select		tray.					
		Casse	ette position	Mar	iual	Upper cassette	Lower cassette		
		TPL (Toner emp	ty)	PW	'S1	UCSS1	LCSS1		
		TNFL (Waste tor	• •	2) :	UCSS2	LCSS2		
			er maintenance la	mp) 3	}	UCSS3	LCSS3		
		MENTL (Mainter		4		UCSS4	LCSS4		
		JPL (Jam lamp)	.,	PL	S1	_	_		
		PPL (Paper emp	ty lamp)	PL	S2	_	_		
							<u> </u>		
42	*	 Developer counter da Mini maintenance 							
		2. Cancel	counter data cie	ai					
		Developer counter	er clear						
		When the main code		•		•			
		Select among 1 - 3 v	-	-	de, the	staple check lamp	goes off. Execution	is	
		immediately perform	-	h 10-key.					
		 Developer count data Clear 	a uleai (EA ONIY)						
		Not clear							
		The copy quantity co	unter of the DV u	nit installed is c	leared.				
		When the main code	e is entered, the	staple check l	amp ligl	•			
		Select between 1 a				code, the staple of	check lamp goes o	ff.	
		Execution is immedia	пету репогтед от	i entering with	то-кеу.				

For the image density sensor The main motor rotates and atio display. Adjust VR2 in that Half tone density correction to	perature. ecuted, the currer mber is displayed to the number is copy the between the si py temperature se quantity display gits is displayed no more digits, the digits are display sis Short blank L ion ratio display tity display tity display tity display tity display tity display for enable nable tion enable on valid set to 07. pt for the process is inputted, "1" (P adjustment in rank, [2] is sele the drum mark se the drum mark	d on the displaye displaye etting etting etting ormally. upper to the second of the s	copy red on the py and wo digits 2 3 65 17	magithe coloridation in the coloridation in th	nification oy quantif are displa ank (time 4 5 175 180 n mode, coection) is is display	ratio of the rest	disable disabl	y, and 2 dig settir long 8 195	the notatic set	(time 0 205 ormal ting)	
When this simulation is exe press 10-key, and the nun temperature corresponding Selection of single/duplex of Press the sorter key to swith Plamp OFF: Single colored in the sorter key to swith Plamp OFF: Single colored in the sorter key to swith Plamp OFF: Single colored in the sorter key to swith Plamp OFF: Single colored in the sorter key to swith Plamp OFF: Single colored in the sorter key to swith Plamp OFF: Single colored in the sorter key to swith Plamp OFF: Single colored in the sorter key to swith Plamp OFF: Single colored in the sorter key to swith Plamp OFF: Single colored in the swith	ecuted, the currenter is displayed to the number is copy and to the number is copy the composition of the co	d on the displaye displaye etting etting etting ormally. upper to the second of the s	copy red on the py and wo digits 2 3 65 17	magithe coloridation in the coloridation in th	nification oy quantif are displa ank (time 4 5 175 180 n mode, coection) is is display	ratio of the rest	disable disabl	y, and 2 dig settir long 8 195	the notatic set	(time 0 205 ormal ting)	
P lamp ON: Duplex copdisplay method of the copy A number of one or two dig For a number of three or interval), then the lower two (3 or more digits) Long blank Upper 2 digits Number on the magnificating Number on the copy quant of the copy qu	py temperature se quantity display its is displayed no more digits, the original digits are display on the image densities of the image densities on the image densities of the image	etting ormally. upper tw yed after → ○○ Lower 2 cc 1	r a sho digits 2 3 65 17 I correctiontrol nsing le 10].	3 70 1	ank (time 4 5 175 180 n mode, crection) is is display	an be enable 0 ~ 259	disabbled. (Au	8 195 led in utoma	9 200 2	0 205 ormal ting)	
P lamp ON: Duplex copdisplay method of the copy A number of one or two dig For a number of three or interval), then the lower two (3 or more digits) Long blank Upper 2 digits Number on the magnificating Number on the copy quant of the copy qu	py temperature se quantity display its is displayed no more digits, the original digits are display on the image densities of the image densities on the image densities of the image	etting ormally. upper tw yed after → ○○ Lower 2 cc 1	r a sho digits 2 3 65 17 I correctiontrol nsing le 10].	3 70 1	ank (time 4 5 175 180 n mode, crection) is is display	an be enable 0 ~ 259	disabbled. (Au	8 195 led in utoma	9 200 2	0 205 ormal ting)	
(3 or more digits) □ → Long blank Upper 2 digits Number on the magnificati Number on the copy quant	s Short blank L ion ratio display tity display tity display tion enable nable tion enable on valid on valid "set to 07. pt for the process is inputted, "1" (P adjustment in rank, [2] is sele the drum mark se posess unit to obtai vity adjustment gain rank, [2] is s the image densit the process unit to	s control Process coected. ensor serin [204±1]	digits 2 3 65 17 I correctiontrol nsing letator.	3 70 1	4 5 175 180 n mode, crection) is	an be enable 0 ~ 25:	7 190 disable disable disable the more than	led in utoma)	the no	ormal ting)	
Number on the copy quant Correction mode setting + 1] Process control correcti + 2] Optical dirt correction er + 4] Drum layer wear correcti +10] Toner control A correction +20] Toner control B corrections	tity display tion enable nable tion enable on valid on valid " set to 07. pt for the process is inputted, "1" (P adjustment in rank, [2] is sele the drum mark se ocess unit to obtai vity adjustment gain rank, [2] is s the image densit te process unit to	s control Process c ected. ensor sen in [204±1 selected. ty sensor	I correctiontrol logical logic	ction	mode, crection) is	an be enable 0 ~ 255	disabled. (Au 5 (5V	led in utoma)	the no	ormal ting)	
Number on the copy quant Correction mode setting + 1] Process control correcti + 2] Optical dirt correction er + 4] Drum layer wear correcti +10] Toner control A correction +20] Toner control B corrections	tity display tion enable nable tion enable on valid on valid " set to 07. pt for the process is inputted, "1" (P adjustment in rank, [2] is sele the drum mark se ocess unit to obtai vity adjustment gain rank, [2] is s the image densit te process unit to	s control Process c ected. ensor ser in [204±1 selected. ty sensor	I correct control nsing k 10].	ction	n mode, corection) is	an be enable 0 ~ 25: ved on	disabled. (Au 5 (5V the m	led in utoma) nagnif	the no	ormal ting)	
+ 1] Process control correcti + 2] Optical dirt correction er + 4] Drum layer wear correct + 10] Toner control A correcti + 20] Toner control B correcti Note: When all are "Enable," The corrections, exce copy mode. When "0" Drum mark sensor sensitivity For the drum mark sensor gai The main motor rotates and t display. Adjust VR1 in the pro mage density sensor The main motor rotates and ratio display. Adjust VR2 in th Half tone density correction te	nable tion enable on valid on valid " set to 07. pt for the process is inputted, "1" (P adjustment in rank, [2] is sele the drum mark se ocess unit to obtai vity adjustment gain rank, [2] is s the image densit ne process unit to	ected. ensor sen in [204±1 selected. ty sensor	nsing le	corre	ection) is : (is display	enable 0 ~ 259 ved on	ed. (Au 5 (5V the m	utoma) nagnit	atic set	ting)	
For the drum mark sensor gaing the main motor rotates and the display. Adjust VR1 in the promage density sensor sensitive for the image density sensor the main motor rotates and ratio display. Adjust VR2 in the Half tone density correction te	in rank, [2] is sele the drum mark se ocess unit to obtain vity adjustment gain rank, [2] is se the image densite the process unit to	ensor sen in [204±1 selected. ty sensor		evel	is display	ed on	the m	nagnit	ication	ratio	
For the image density sensor The main motor rotates and atio display. Adjust VR2 in that Half tone density correction to	gain rank, [2] is s the image densit ne process unit to	ty sensor			: (0 ~ 25	5 (5V)			
•		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 magnification ratio display. Adjust VR2 in the process unit to obtain [204±10].									
Half tone density correction test mode The main motor is rotated, and toner patches are formed in 8 steps by setting the grid bias to 450 850V (50V step). The patch section level and the image density sensor level at the surface are displayed.											
Magnification ratio display	Copy quantity	display									
0	450VP/450	0VB									
1	500VP/500	0VB								ed	
2	550VP/550	0VB			. Jopy que	arity U	yiay	~y 2	aigito.		
3	600VP/600	0VB									
4											
5											
6											
8	850VP/850	0VB									
	0 1 2 3 4 5	0 450VP/45 1 500VP/50 2 550VP/55 3 600VP/60 4 650VP/65 5 700VP/70 6 750VP/75 7 800VP/80	0 450VP/450VB 1 500VP/500VB 2 550VP/550VB 3 600VP/600VB 4 650VP/650VB 5 700VP/700VB 6 750VP/750VB 7 800VP/800VB	0 450VP/450VB 1 500VP/500VB 2 550VP/550VB 3 600VP/600VB 4 650VP/650VB 5 700VP/700VB 6 750VP/750VB 7 800VP/800VB	0 450VP/450VB 1 500VP/500VB 2 550VP/550VB 3 600VP/600VB 4 650VP/650VB 5 700VP/700VB 6 750VP/750VB 7 800VP/800VB	0 450VP/450VB 1 500VP/500VB 2 550VP/550VB 3 600VP/600VB 4 650VP/650VB 5 700VP/700VB 6 750VP/750VB 7 800VP/800VB	0 450VP/450VB which is displayed on ratio display by the so on the copy quantity of the copy quanti	0 450VP/450VB which is displayed on the mratio display by the sorter kern on the copy quantity display 1 500VP/500VB on the copy quantity display 2 550VP/650VB on the copy quantity display 3 600VP/600VB on the copy quantity display 4 650VP/650VB on the copy quantity display 5 700VP/700VB on the copy quantity display 6 750VP/750VB on the copy quantity display	0 450VP/450VB which is displayed on the magnification display by the sorter key is confidence on the copy quantity display by 2 1 500VP/500VB on the copy quantity display by 2 3 600VP/600VB on the copy quantity display by 2 4 650VP/650VB on the copy quantity display by 2 5 700VP/700VB on the copy quantity display by 2 6 750VP/750VB on the copy quantity display by 2	0 450VP/450VB which is displayed on the magnification ratio display by the sorter key is displayed on the copy quantity display by 2 digits. 1 500VP/500VB on the copy quantity display by 2 digits. 3 600VP/600VB on the copy quantity display by 2 digits. 4 650VP/650VB on the copy quantity display by 2 digits. 5 700VP/700VB on the copy quantity display by 2 digits. 6 750VP/750VB on the copy quantity display by 2 digits.	0 450VP/450VB which is displayed on the magnification ratio display by the sorter key is displayed on the copy quantity display by 2 digits. 1 500VP/550VB on the copy quantity display by 2 digits. 3 600VP/600VB 650VP/650VB 5 700VP/700VB 750VP/750VB 7 800VP/800VB

				Descri		Ref. Pag
44	06	Compulsory exe	ecution of ha	If-tone density correction		
		NORM	NORMAL	: Standard mod	de grid bias (450 ~ 1250V)	
		T/S	T/S	: Toner save m	ode grid bias (450 ~ 1250V)	
		PHOT	PHOTO	: Photo mode	grid bias (450 ~ 1250V)	
		GB_A	GB ADJU		ection value after measurement (±0 ~ 999V) –) indicates PAUSE lamp ON.	
		TARG	TARGET	: Patch/founda 255 (255= fou	tion, standard patch value when foundation is undation)	
		ID_G	ID GAIN	: Image density	sensor gain rank in execution (1 ~ 7)	
		MARK	MARK		ensor mark level in execution (0 ~ 255, 255=5V)	
		MARB	MARK B		ensor surface level in execution (0 ~ 255, 255=5V)	
		DM_G	DM GAIN		ensor gain rank in execution (1 ~ 7)	
		*m*n	l*m*n	: Vc1 correction		
		BAS1, 2, 3	BASE1, 2	, 3 : Drum surface 255, 255=5V)	image density sensor level in execution (0 ~	
		PAT1, 2, 3	PATCH1,	2, 3 : Toner patch ii 255=5V)	mage density sensor level in execution (0 ~ 255,	
		<u> </u>	I	: Vg correction : Dirt correction		
		m n	n n		rection coefficient	1
		M1	M1		a coefficient (M1)	
		M2	M2		a coefficient (M2)	
		IVIZ	IVIZ	. Dirt correction	r coemcient (M2)	1
		Magnification r	atio display	Copy quantity displa	у	
		0	atio display	MORMAL	У	
		0	atio display	MORMAL T/S	у	
		0 1 2	atio display	MORMAL T/S PHOTO	у	
		0 1 2 3	atio display	MORMAL T/S PHOTO GB ADJUST	y	
		0 1 2	atio display	MORMAL T/S PHOTO	y 	
		0 1 2 3 4	ratio display	MORMAL T/S PHOTO GB ADJUST TARGET	y 	
		0 1 2 3 4 5	atio display	MORMAL T/S PHOTO GB ADJUST TARGET ID GAIN	y	
		0 1 2 3 4 5 6	ratio display	MORMAL T/S PHOTO GB ADJUST TARGET ID GAIN MARK	y	
		0 1 2 3 4 5 6	ratio display	MORMAL T/S PHOTO GB ADJUST TARGET ID GAIN MARK MARK B	y 	
		0 1 2 3 4 5 6 7		MORMAL T/S PHOTO GB ADJUST TARGET ID GAIN MARK MARK B DM GAIN	y	
		0 1 2 3 4 5 6 7 8 9		MORMAL T/S PHOTO GB ADJUST TARGET ID GAIN MARK MARK B DM GAIN I*m*n PATCH1 BASE1	y	
		0 1 2 3 4 5 6 7 8 9 10		MORMAL T/S PHOTO GB ADJUST TARGET ID GAIN MARK MARK B DM GAIN I*m*n PATCH1 BASE1 PATCH2	y	
		0 1 2 3 4 5 6 7 8 9 10 11 12		MORMAL T/S PHOTO GB ADJUST TARGET ID GAIN MARK MARK B DM GAIN I*m*n PATCH1 BASE1 PATCH2 BASE2	y	
		0 1 2 3 4 5 6 7 8 9 10 11 12 13		MORMAL T/S PHOTO GB ADJUST TARGET ID GAIN MARK MARK B DM GAIN I*m*n PATCH1 BASE1 PATCH2 BASE2 PATCH3	y	
		0 1 2 3 4 5 6 7 8 9 10 11 12 13 14		MORMAL T/S PHOTO GB ADJUST TARGET ID GAIN MARK MARK B DM GAIN I*m*n PATCH1 BASE1 PATCH2 BASE2 PATCH3 BASE3	y	
		0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15		MORMAL T/S PHOTO GB ADJUST TARGET ID GAIN MARK MARK B DM GAIN I*m*n PATCH1 BASE1 PATCH2 BASE2 PATCH3 BASE3 I	y	
		0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16		MORMAL T/S PHOTO GB ADJUST TARGET ID GAIN MARK MARK B DM GAIN I*m*n PATCH1 BASE1 PATCH2 BASE2 PATCH3 BASE3 I m	y	
		0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17		MORMAL T/S PHOTO GB ADJUST TARGET ID GAIN MARK MARK B DM GAIN I*m*n PATCH1 BASE1 PATCH2 BASE2 PATCH3 BASE3 I m n	y	
		0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16		MORMAL T/S PHOTO GB ADJUST TARGET ID GAIN MARK MARK B DM GAIN I*m*n PATCH1 BASE1 PATCH2 BASE2 PATCH3 BASE3 I m	y	

Main code 44	Sub code 07	Drum mark sensor/image de The value corresponding to sorter key is displayed on the	nsity sensor gain selectors the number which is	displayed on the magnificat	tion ratio display by the	Ref. Page
		Magnification ratio display	Copy quantity display	Magnification ratio display	Copy quantity display	
		0	DM7	7	ID7	
		1	DM6	8	ID6	
		2	DM5	9	ID5	
			DM3 DM4	10	ID3	
		3				
		4	DM3	11	ID3	
		5	DM2 DM1	12 13	ID2 ID1	
	09	Half tone density correction	measurement data disp	lay		
	11	The display is similar to SIM Operation and setting at grid		f values cannot be made, an	d only display is shown.	
		Select the code with "\to "key The value corresponding to sorter key is displayed on the For 0, 1, 2, and 3, only the d	the number which is e copy quantity display	displayed on the magnificat by 2 digits.	tion ratio display by the	
		Magnification ratio display	Copy quantity displ	ay		
		0	GB_250V			
		1	GB_850V			
		2	GB_1000V			
		3	GB_1050V			
		4	PATCH			
		5	NORMAL			
		6	T/S			
		7	PHOTO			
40	12	Copying is made without prois in the process section or in	n the other section whe		now whether the trouble	
46	01	 Exposure level adjustment Used to adjust the copy de The value corresponding sorter key is displayed on 	ensity and the copy den to the number which is	displayed on the magnification	tion ratio display by the	
		Magnification ratio display Copy quantity display		3 4 5 6 7 S5 PE1 PE5 AE1 AE		
47	*	tialized, scans about The READY lamp tur Press the PRINT sw each from 80V (160\ memory. The values	eristics memory aracteristics input	riving voltage changes in ir e AE sensor output characte.	ncrements of 10V (20V)	[7]-20-(3
		position.)	•	ns and stops at the AE ser $11" \times 17"$) on the document to		
			again, and the AE ser utput level is stored.	nsor output level with the w	hite paper document is	

Main code	Sub code	Description	Ref. Page					
48	Front/rear direction zoom ratio adjustment (refer to [7]-3-(6)-9 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 the lens or main PWB replacement)							
		Press the C → □→ O → □→ 4 → 8 → PSW → keys. 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 - [(value of O.L.) x 5] = standard value of correction Ex: 40 - (+1.2 x 5) = 34 1-2. Use this test command to adjust the horizontal zoom ratio. Change the value entered in "1-1" to change.	[7]-8-(1) -(3)					
		 2-1. No.4/4 mirror home position standard value input (at a time of lens or main PWB replacement). Press the C → = J → 0 → = J → 4 → 8 → PSW 1 → PSW keys. The already stored value or "50" 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: 50 - (+1.2 x 10) = 38 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 	[7]-8-(2) [7]-9-(4)					
		shorten the light path. The value is calculated in this manner.						
		9 0 1 0 2 4 Manufacturing date O. L + 1. 2						
		(O-L) O. i + 2. 4 Preset value Preset value						
		(O-i) TOPCON						
		<u>Label content</u>						
		Magnification ratio display 0 1 Copy quantity display 45MB LENS						
		The value corresponding to the number which is displayed on the magnification ratio display by the sorter key is displayed on the copy quantity display by 2 digits.						
	02	Used to adjust the zoom ratio in the landscape mode. Varying the mirror base moving speed adjusts the zoom factor in the landscape direction of the co (paper moving direction). ① Place a scale over the original table in the direction the paper moves. Make a copy in the 100 zoom mode and obtain the copy zoom ratio correction factor. Copy zoom correction factor = (original size) - (copy image size) / (original size) × 100%						
		② As the READY lamp turns on, the previously set figure between 15 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-(11)					
	02	system copy lead edge adjustment procedure. 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.						
51	02	Resist amount adjustment	[7]-15-(11)					
		Magnification ratio display 0 1 2 Copy quantity display Manual Cassette ADU						
		The value corresponding to the number which is displayed on the magnification ratio display by the sorter key is displayed on the copy quantity display by 2 digits. At the same time, the corresponding paper feed port is selected with the tray select key. Reference value: 40, 45, 50						

Main code	Sub code	Description	Ref. Page
51	05	Frame delete rate adjustment (copy moving direction only) Used to set the frame delete rate.	
		 When the test command is executed, the READY lamp turns on, and the figure previously stored is displayed on the copy number window. Now, it becomes ready to accept a number between 1 and 19 on the keypad. When the PRINT switch is pressed after the entry, the number is stored in the memory and the READY lamp turns 	
52	01	off. A single rate deletes the frame of about 1.0mm. The standard value has been set to "6." • 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 the memory. It can be 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 can be 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 (1 step = 1ms) Can be set to any number between 0 and 99 (Standard: 18). 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/ADF stop position adjustment value (normal paper, duplex copy) setting Used to adjust the RADF/ADF 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. 	
53	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
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 01	Memory. Counter sumcheck error detection (Test command 16 to reset)
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
	01	Paper jog malfunction detected
F1	02	Transport motor malfunction detected
	04	Indexer lower limit detected
	05	Indexer upper limit detected
	06	Shift motor malfunction detected
	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)
F2		DM sensor cannot sense.
12		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
гэ	22	Main unit bottom cassette liftup motor trouble detected
EE	EL	Toner sensor indicates extreme overtoned condition
CC	EU	Toner sensor indicates extreme undertoned condition
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	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 trial and 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.
P22	Toner Save Mode	Reduces toner consumption.
P23	Auto Clear Setting	Sets a time interval after which the copier returns to the initial settings.
P24	Add or Change Extra Preset Ratios	Adds or changes reduction and enlargement preset copy ratios.
P25	Setting a Maximum Number of Copies	Sets the maximum number of copies that can be selected.
P26	Initial Margin Shift Setting	Sets the initial 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.
P42	Right/Left Shift Direction Selection	Determines whether shift direction change is to be allowed.
P45	Message Time Setting	Sets the length of time that messages are displayed.
P46	Power On Control	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.
P51	Sorter Bin Access Mode	Enables or disables the sorter bin access mode when an optional 10-bin sorter (SF-S18) is installed.
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.)
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.)
P90	Display the List of All P Codes	Sequentially displays all available programs.

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