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<u>fi-6800, Image Scanner</u> <u>fi-680PRF/fi-680PRB, Imprinter</u> <u>Maintenance Manual</u>



									Name	fi-6800/fi-680P Maintenar	RF/f	i-680PRB Ianual
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Preface

This manual provides the technical information such as maintenance, troubleshooting procedure and parts replacement procedure for field Engineers on fi-6800 image scanner and fi-680PRF/fi-680PRB imprinter (option). This manual is not responsible if used for other than maintenance.

For information that is not contained in this manual, refer to the following manuals:

Item	Manuals	P/N *
1	fi-6800 Image Scanner Operator's Guide	P3PC-2492-xxENZ0
2	fi-6800 Image Scanner Getting Started	P3PC-2482-xxEN
3	fi-680PRF/PRB Imprinter Operator's Guide	P3PC-2512-xxEN
4	[Important] Read Before Using VRS	P3PC-2652-xxENZ0
5	fi-6800/fi-680PRF/fi-680PRB Illustrated Parts Catalog	P4PA03576-B5XX/6

* xx represents revision number of the manuals.

Convention

Special information, such as warnings, cautions, are indicated as follows:

WARNING indicates that personal injury may result if you do not follow a procedure correctly.

CAUTION indicates that damage to the scanner may result if you do not follow a procedure correctly.

NOTICE provides 'how-to" tips or suggestions to help you perform a procedure correctly.

General note:

Be careful not to power off the scanner while communicating with the host computer. In case that the scanner is accidentally powered off during communication with the host, follow the procedure below:

- 1. Power off the host computer.
- 2. Power on the scanner.
- 3. Power on the host computer.

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The operating systems and products in this manual are indicated as follows:

Windows 2000:	Microsoft [®] Windows [®] 2000 Professional operating system (Service Pack 4 or later)
Windows XP:	Microsoft [®] Windows [®] XP Professional (Service Pack 2 or later)
	Microsoft [®] Windows [®] XP Professional x64 Edition
	Microsoft [®] Windows [®] XP Home Edition (Service Pack 2 or later)
Windows Server 2	003: Microsoft [®] Windows Server [®] 2003, Standard Edition
	Microsoft [®] Windows Server [®] 2003, Standard x64 Edition
	Microsoft [®] Windows Server [®] 2003, R2 Standard Edition
	Microsoft [®] Windows Server [®] 2003, R2 Standard x64 Edition
Windows Vista:	Microsoft [®] Windows Vista [®] Home Basic (32/64-bit)
	Microsoft [®] Windows Vista [®] Home Premium (32/64-bit)
	Microsoft [®] Windows Vista [®] Business (32/64-bit)
	Microsoft [®] Windows Vista [®] Enterprise (32/64-bit)
	Microsoft [®] Windows Vista [®] Ultimate (32/64-bit)
Windows Server 2	008: Microsoft [®] Windows Server [®] 2008, Standard (32/64-bit)
Microsoft SharePo	nint Server: Microsoft® Office SharePoint® Portal Server 2003
	Microsoft [®] Office SharePoint [®] Server 2007
Where there is no dis	tinction between the different versions of the above operating system, the general term "Windows" is
used.	h X

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Chapter 1 Overview

Section 1.1.1

1.1 Scanner Overview

1.1.1 Features

The fi-6800, image scanner has the following features: [Scanning speed]

[Feeding mechanism]

Batch scanning (Documents with different paper weight/size/color/brightness can be scanned at once.)
Reduced work loss caused by multifeeds
-The scanner mounts three ultrasonic sensors that accurately detect multifeed.
-Paper separation force (torque tension) can be changed to detect multifeed of the different types of documents.

[Document Protection] Staple detection (When documents are stapled, the scanner urgently stops paper feeding operation.)

[Image processing] Kofax VRS, known for their quality in image processing, is included as standard equipment.

[Option] Equipped with imprinter options (Front-side post imprinter, Back-side post imprinter)



1.1.2 Scanner Specification

No.	Item		Specifica	tion		Remarks			
1	Operating me	ethod	Automati	c Document Feed	er (ADF)				
			+ Manual	feeding (separatio	n/non-separation				
2	Image sensor	r	Color CC	D (Charge-couple	ed device) x 2	ADF front/back			
3	Light source		White LE	D array					
4	Optical resol	ution	600dpi x	600dpi					
	-		(main sc	anning x sub-scar	nning)				
5	Internal vide	o processing	1024 leve	ls (10bit)					
6	Video output	format	Monochro	ome: 1 bit/pixel					
			Grayscale	e:8 bit/pixel					
			Color: 24	bit/pixel					
7	Output		50-600 dp	oi (in increments o	Paper size	Resolution			
	resolution	TW/AIN/			DL ~ 863mm	400 or less			
		ISIS				863mm~3m	300 or less		
		1515			Multi image	400 or less			
					(up to DL)	400 01 1033			
		VDC	100, 150,	200, 240, 300, 40	0 dpi	$DL \sim 2.7m$	300 or less		
		VKS				2.7 ~ 3m	200 or less		
8	Scanning			Simplex (ppm)	Duplex (ipm)				
	speed		200dpi	100	200				
	(A4	TWAIN/	300dpi	100	200				
	Portrait)	ISIS	400dpi	60	120				
			600dpi	30	60				
			100dpi						
			150dpi						
		VDC	200dpi						
	VRS		240dpi						
			300dpi						
			400dpi						
9	Paper size	TWAIN/	Minimum	n 52 x 74 mm, A8	(Portrait)	Up to 3,048 mm	(120 in.) at		
	-	ISIS	Maximun	n: 304.8 x 431.8 n	custom setting				
		VPS	Minimum	n: 52 x 74 mm, A8	8 (Portrait)	Up to 863mm	at custom		
		VKS	Maximun	n: 304.8 x 431.8 n	nm (Portrait)	setting			
10	Paper weight		B4 or less:	$31 \sim 209 \text{g/m}^2$					
11	11		B4 or over	: 52~15/g/m ²	500 alterater (80 a /m ²	. I			
11	Hopper		Shape Sid	maximum 50 mm, 3 le guide independer	500 sneets (80 g/m atly adjustable (deta), Less than okg			
12	Stacker		Capacity :	maximum 50 mm.	$500 \text{ sheets } (80 \text{ g/m}^2)$). Less than 5kg			
			Shape : Po	sition controlled by	height detection				
		Ŧ	Si	de guide position a	djustable, Page bott	om alignment			
13	Mixed size s	canning	- Docume	ent side edge shal	l not be placed w	ithin 26mm from the	hopper		
			centerlin Contor	le.	mandad at mana-	loading			
14	Background	TW/AINI/	- Center a White / RI	argning is recom	menueu at paper	Front and back side	image shall be		
14	Dackground	ISIS	white / Di	der selectuble		the same color.	iniage shan be		
		VRS	Not selecta	ble					
15	Multifeed	VIC	Three ultra	sonic sensors (in m	ain scanning direct	on)			
1.5	mannood		* iMFF function						
			* Selectable MF recovery function						
16	Paper protect	tion	Document feeding is stopped by,						
			- skew detection						
17	Interfere	TW/AINT/	- staple detection						
1/	Interface	I WAIN/	Ultra-SUSI Shielded 50-pin type USB2 ((High-SPEED)						
		VPS	USB2.0 (High-SPEED)						
		VICO	USB2.0 (H	ligh-SPEED)	pin type				
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No	Item	Function	TWAIN/ISIS	VRS
		Automatic color-monochrome detection	✓	✓
		Multipage	\checkmark	
		Blank page deletion		
		(color, grayscale, monochrome)	•	•
		Simple automatic black and white	✓	
		Error diffusion/Dither	✓	
		Automatic de-skew	\checkmark	
		Automatic page size detection	\checkmark	\checkmark
		Soft-IPC	✓	
	Image processing function	Automatic rotation	✓ (11 languages)	✓ (9 languages)
		Automatic image quality check	✓	
		Toggle patch	\checkmark	\checkmark
		Cropping for dark background paper	\checkmark	
		Prescan	✓	
		Patch code number notification	✓	
		Background smoothing		\checkmark
		Advanced Clarity		\checkmark
		Automatic black & white		\checkmark
		R/G/B dropout colors		\checkmark
		Non-dropout color	✓	\checkmark
	Dropout colors	Select dropout color	✓	
		Multi dropout colors	✓	
		Hardware real-time IPEG compression 4.4.4	✓	✓
	Image compression	Hardware real-time IPEG compression 4:2:2	✓	✓
	function	Hardware real-time IPEG compression 4:1:1	✓	
		Hardware real-time JI EO compression 4.1.1	•	3
			2	(two on the CT
	Installed memories	DDR2-SODIMM 512MB	(Total: 1024MB)	PCA, one on the
			· · · · ·	CGA card)
	PFL	CON		

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1.1.2a Imprinter Specification

No.	Item	Specification	Remarks
1	Printing Method	Thermal inkjet printing	
		-Post-imprinter, Front Side (print after scan)	
		-Post-imprinter, Back Side (print after scan)	
2	Printing direction	Document feeding direction	
3	Print color	Black	
4	Printing Characters	Alphabet : $A \sim Z$, $a \sim z$	ANSi code
		Numeric Characters : 0, 1~9	95 types (including space)
		Symbols: ! " \$ # % & ' () * +, / : ; < = > ? @ [\]^_` { } ~	Standard and bold,
		* Character pattern downloaded, printing of special character and	Narrow
		character spacing setting are not available.	
		VDS.	
		$\Delta \ln habet \qquad \Delta \sim 7 a \sim 7$	
		Numeric Characters : 0 1~9	
		Symbols: ! " \$ $\#\%$ & ' () * + , / : ; < = > ? @ [\]^`` { } ~	
		Standard only	
5	Print orientation		
		、 /ə̈́ ↘ ← /ə̈́ ↘ A /ə̈́ ː	
			Îi Di
		(Backside) (Backside)	(Racksida)
		(Dackside) (Dackside)	(Dackside)
		String angle: 0° 180° 90°	270° (vertical)
(<u> </u>	VRS: String angle is 0° only	
6	Character size	Normal / Bold: $2.91 \times 3.03 \text{ mm} (96 \times 67 \text{ dp1})$	
7	(Vertical X Horizontal)	Narrow: 2.91 x 1./1 mm (96 x 6/ dpl)	
/	(Vertical v Horizontal)	Normal / Bold, 12 x 9 dot	
8	Maximum characters	A3 characters	
9	Printing area	TBD	
10	Character position		
10	accuracy	Feeding direction: ±4mm (at reference position)	
11	Replacing cycle of	4,000,000 characters	
	print cartridge	Or 6 month after opening the bag.	
	-	*The replacing cycle may differ depending on the number of dots or	1 the printed characters.
12	Document requirement	Thickness: 52 to 157g/m^2 .	
		Size: Same as the scanner	
	X	Type: Same document types of ADF are available except t	he paper types, which do
		not easily soak the ink such as Art paper or Coated p	aper.

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1.1.3 Environmental Specification

No.		Item		Specificat	tion	Remarks
1	Input	Voltage range		AC100V to 240V ±	10% (Single ph	ase)
	power	Frequency ran	ige	50/60Hz ± 3Hz		,
2	Power	Operating	-	200 W or less		International Energy Star:
	consumption	Not operating		TBD		less than 6.9W
		Sleep mode	TWAIN/ISIS	4.0W or less (AC 10	00-120V)	
				4.2W or less (AC 22	20-240V)	
			VRS	5.0W or less (AC 10	00-120V)	
				5.1W or less (AC 22	20-240V)	
3	Outer dimens	sion		460 (W) x 430 (D) x	x 310 (H) mm	- Protrusion not included
						- Hopper and Stacker
						extension stored
4	Installation spa	ace		a: 1		
				Side	Require	ed space
				Right side	200	mm
				Pear side	200	mm
				Front side	600	mm
				1 tont side	000	
					↑	
						(00
						600mm
					Ļ	
					v	
					Scon	
				20	Omm Scari	Momony
						Merriory
				マクト	Ť	
				Front		600mm
					Ļ	
			\frown		•	
5	Waight			$22 \log (70.6 \text{ lb}) = 1$	1000	
3	Finirenmente	1	Operating	32 kg (70.0 ID) Or	1035 5 °F)	Jo condensation
0	condition		Not operating	-20 to 60 °C (-4 to 1	$\frac{1}{40^{\circ}\text{F}}$	NO CONDENSATION
	Condition	Temperature	Stored	-20 to 60° C (-4 to 1	40° F)	
			Transported	-201000 0 (-4101	то 1' <i>ј</i>	
		\sim	Operating	$20 \sim 80 \%$		
			Not operating	8~95%		
		Humidity	Stored	8~95%		
			Transported			
7	Calorific	Operating		172 Kcal/Hr or less		
	value	Not operatir	ng	TBD Kcal/Hr or less	5	
		Sleep	TWAIN/ISIS	3.5 Kcal/Hr or less (AC100-120V)	
		mode		3.7 Kcal/Hr or less (AC220-240V)	
			VRS	4.3 Kcal/Hr or less (AC100-120V)	
	D 1 1111			4.4 Kcal/Hr or less (AC220-240V)	
8	Packaged Wei	ght		I BD		

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1.1.4 Appearance

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1.1.5 Operator Panel

The fi-6800 equips the operator panel with LCD panel which improves work efficiency.

The operator panel can display the scanner setting information, the number of scanned documents, and error status, in order to enhance the operability and scanning performance.

For the maintenance, the maintenance mode can be launched on the operator panel.



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1.2 Document Specification

The following table shows the paper size, weight and quality required for the appropriate operation by the ADF.

1.2.1 Paper Size

No	Iter	m	Specification	Remarks
1	D	TWAIN /ISIS	Minimum: 52 x 74 mm, A8 (Portrait) Maximum: 304.8 x 431.8 mm (Portrait)	Up to 3,048 mm (120 in.) at custom setting
1	Paper size	VRS	Minimum: 52 x 74 mm, A8 (Portrait) Maximum: 304.8 x 431.8 mm (Portrait)	Up to 863mm at custom setting
2	Paper v	veight	B4 or less: $31 \sim 209 \text{g/m}^{2!}$ (8.3 ~ 56 lb) B4 or over: $52 \sim 157 \text{g/m}^{2!}$ (14 ~ 42 lb)	Paper weight is represented by "basis weight".
3	Mixed size	scanning	Mixed size range: - Document side edge shall not be placed centerline. - Center aligning is recommended at pape	within 26mm from the hopper er loading

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1.2.2 Paper Quality

Paper type and precautions before scanning operation are described in this section.

- Paper Type

Recommended paper types for scanning are as follows:

- Wood-free paper
- Wood containing paper

When using paper types other than the above, make sure to test with the same type of paper and see if it can be scanned before you start scanning the actual document.

- Precautions

The following types of documents may not be scanned successfully:

- (c)! Documents of non-uniform thickness (e.g. envelopes, documents with photographs attached)
- (E)! Wrinkled or curled documents
- E! Folded or torn documents
- C ! Tracing paper
- Coated paper
- ℗! Carbon paper
- €! Non carbon paper
- (E)! Photosensitive paper
- Perforated documents
- (b)! Documents that are neither square nor rectangular
- ©! Very thin documents

Also, do not scan the following types of documents:

- (E)! Paper-clipped or stapled documents
- B! Documents on which the ink is still wet
- (E)! Documents smaller than A8 size
- (12 in.) Documents wider than 304.8mm (12 in.)
- E! Documents other than papers such as fabric, metal foil and OHP film.
- C! Important documents such as certificates and cash vouchers which must not be damaged

- To scan documents that are semi-transparent, slide the [Brightness] bar to light to avoid bleed through.
- To prevent the rollers from becoming dirty, avoid scanning documents containing large areas filled with pencil. If you have to scan such documents, make sure to perform cleaning frequently.
- If a pick error, paper jam or multifeed occurs frequently, refer to Section "xxx".
- Carbonless paper contains chemical substances that may harm the paper-feeding rollers (e.g. Pick Rollers, Separator Roller, Brake Rollers) when documents are fed. Pay attention to the following:

Cleaning: If document jams occur frequently, clean the paper-feeding rollers.

Replacing parts: The service life of the consumables for scanning "carbonless paper" may be shorter than that for scanning "wood containing paper."

When scanning wood containing papers, the life of each roller may end quicker compared to when scanning woodfree papers".

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All documents must be flat on the leading edge. Make sure that curls on the leading edge of the documents are kept within the following range.



1.2.3 Loading Capacity

The number of sheets that can be loaded on the hopper is determined by the paper size and paper weight of the document. See the following graph:



Paper thickness (unit)					Co	onversion	ı			
g/m ²	31	52	64	75	80	90	104	127	157	209.3
lb	8.3	14	17	20	21	24	28	34	42	56.1
kg	26.7	45	55	64.5	69	77.5	90	110	135	180
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1.2.4 Areas Not to be Perforated

An error may occur when there are punched holes in the area shaded in light blue in the following picture. Refer to Section 1.2.7 for the Job Separation Sheet.



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1.2.5 Multi feed Detection Conditions

Multifeed detection is performed by either checking the overlapping of documents, length of the documents, or the combination of both. The following conditions are required for an accurate detection.

1) Detection by overlapping

- Paper weight: $20 \sim \frac{209 \text{g/m}^2}{(8.3 \sim 56.11\text{b})} (0.025 \sim 0.25 \text{mm})$
- Do not punch holes within 35 mm (1.38 in.) of the vertical lines in the left, center and right of the document. (See Fig.1.)
- Do not attach other documents within 35 mm (1.38 in.) of the vertical lines in the left, center and right of the document. (See Fig.1.)

2) Detection by length

- Document length deviation: 1 % or less
- Do not punch holes within 35 mm (1.38 in.) over the vertical center line of the document. (See Fig.2.)

3) Detection by overlapping and length

- Paper weight: $20 \sim \frac{209 \text{g/m}^2}{(8.3 \sim 56.11\text{b})} (0.025 \sim 0.25 \text{mm})$
- Document length deviation: 1 % or less
- Do not punch holes within 35 mm (1.38 in.) of the vertical lines in the left, center and right of the document. (See Fig.1.)
- Do not attach other documents within 35 mm (1.38 in.) of the vertical lines in the left, center and right of the document. (See
 - Fig.1.) 35mm 35mm 35mm 35mm Ś ⇒ \leftarrow \leftarrow Feeding Feeding direction direction !€ ≻¦< ≻¦ 60mm 60mm Fig. 2 Fig. 1

The rate of multifeed may drop with some documents such as glued paper or electro-statically charged paper when multifeed is detected by overlapping.

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1.2.6 Restricting the Background Color Area

The scanning area from the leading edge to the first 3 mm should be in white (ground color of the document).

If [White level follower] is enabled, the following area (shaded in gray) must be the same as the ground color or the color to be dropped out.

If the document contains text, frames or signatures in this area, disable [White Level Follower].



The document must be wider than A4/Letter size (210mm / 8.27 in.) The above condition applies when the document is placed at the center of the pick roller width.

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1.2.8 Scanning a Mixed Batch of Documents

The following conditions apply when scanning a mixed batch of documents with different paper thicknesses/friction coefficients/sizes.

Always test scan a few sheets and see if the documents can be fed through before scanning a mixed batch of documents.

■! Paper type

Align the direction of the paper fiber with the feeding direction.

■ ! Paper thickness

When scanning documents with different paper thicknesses in the same batch, keep the paper thicknesses within the following range:

- A5 or larger, A4 or smaller: $20 \sim 209.3 \text{ g/m}^2 (5.5 \sim 56.1 \text{ lb})$
- Smaller than A5, larger than A4: $40.7 \sim 209.3 \text{ g/m}^2 (11.0 \sim 56.1 \text{ lb})$
- A8 size: $127 \sim 209 \text{ g/m}^2 (34 \sim 56.1 \text{ lb})$

■! Friction coefficient

We recommend that you use the same type of paper from the same manufacturer.

When papers of different manufacturers/brands are mixed, it affects the feeding performance as the difference in the friction coefficient increases.

The recommended friction coefficients are as follows:

0.35 to 0.60 (reference value for paper friction coefficient)

■! Paper size

When scanning a mixed batch of documents, refer to Section 3.1.6 "XXXXXXX" and table below.

Note

- When scanning a mixed batch of documents with different sizes, it is more likely to skew because the hopper side guides do not function on every sheet.
- We recommend scanning with [Automatic Page Size Detection] enabled.
- Multifeed detection by checking the length cannot be used together with [Automatic Page Size Detection].

Ma	aximum	size	A3	DL	B4	LTR	A4	B5	A5	B6	A6	B7	A7	B8	A8
	Width	(mm)	297	279	257	216	210	182	149	129	105	91	74.3	64.3	52.5
	A3	297													
	DL	279				1									
	B4	257													
	LTR	216													
ize	A4	210													
n s	B5	182													
un	A5	149													
nin	B6	129					Availa	ole rang	ge						
Mi	A6	105	C												
	B7	91)												
	A7	74.3													
	B8	64.3													
	A8	52.5													

DL: 11×17

When a set of wider documents are placed on top of smaller documents within the same batch, the wider documents on top may hang down and affect the feeding performance.

Try to meet the following condition:



Bottom of hopper

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1.2.9 De-skew and Auto-cropping

Available scanning mode

ADF front side/back side: Binary/Gray/Color

Following condition is required for De-skew and Auto-cropping.

1) Document thickness: 31 to 209 g/m² (8.3 \sim 56 lb)

2) Shape of document: Rectangle

3) Edges of document with 5 mm from edges shall not be black.

4) Skew angle (a) shall be less than 45 degree.

<ADF>



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Chapter 2 Scanner Configuration

2.1 Scanner Configuration

This section describes the operation of each unit.

2.1.1 Description of Units

The illustration below shows positions of component parts such as sensors, switches and feeding rollers from side of the scanner.



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Section 2.1.1

Names and Functions of Sensors/Switches

Name	Function	Remarks
Pick Sensor		
Skew Sensor	Prism type sensor	Sensor
Jam Sensor	A signal is sent out from the sensor, reflected by prism,	
Feed Top Sensor	and returns to the receiver sensor.	
Read Top Sensor	whether communication between the senor and prism	
Imprinter Top Sensor	is interrupted or not.	Prism
Exit Sensor		
Stacker Bottom Sensor		
Manual Feed Sensor		
Pick Position Sensor	Horseshoe-shaped sensor	
Staple Sensor	Turns on/off the switch by shading between the	
Hopper Bottom Sensor	sensors.	And in case of the local division of the loc
Brake Encoder Sensor		A DESCRIPTION OF THE OWNER.
BW Switching Sensor (F, B)		
Empty Sensor	Horseshoe-shaped sensor Principle of operation is the same as that of the horseshoe-shaped sensor above. Detects that documents are loaded onto the Hopper by the paper detection arm on the sensor	A A A A A A A A A A A A A A A A A A A
Assist Roller Rotation Detection Sensor	Detects the Assist roller rotation	A CONTRACTOR
Stacker Position Sensor	Detects documents on the Stacker. The Paper detection sensor functions with the emitter and receiver as a sensor. The sensor at right side transmits and the sensor at left side receives. Detects the error when excessive amount of documents are stacked on the Stacker.	
Ultrasonic Sensor (US Sensor RV/FX)	Consists of a transmitter and receiver. Detects layers of air between two documents by the ultrasonic wave. If there is no layers of air between the documents because they are glued, detection cannot be made.	
ADF Open Switch	Detects the Cover open/close.	Not in use
Top Cover Open Switch	Only two terminals are available on this scanner.	

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2.2 Operational Sequence

2.2.1 Power ON ~ Initialization completes <LCD display>

The LCD panel display changes in eight steps when the power is supplied until the scanner becomes ready.

If an error occurs during initialization, the Check LED on the Operator Panel lights up, and the error is displayed on the LCD display.

Usually, the progress bar does not stop even when an error occurs during initialization, and either the scanner becomes ready or the error is displayed.

* If the progress bar stops in midstream, this is a scanner error.

[LCD display from power ON ~ Initialization completes]



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Error

<Flowchart>



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2.2.2 Flow of Paper Feeding/Transporting/Ejecting

<Flow of Feeding>

1. When the scanner receives the scan command, the Empty sensor detects paper, checks that the ADF open switch/Top cover open switch are closed, the scanner lifts up the Hopper, and then starts feeding documents (except for manual feeding mode).



- 2. The pick roller starts normal rotation, and feeds documents to the Separator roller and Brake roller.
- 3. The fed docments are separated by the Separator roller and the Brake roller. The Brake roller is not connected to the motor that drives the roller so that it never feed documents in oposite direction. The Brake roller stops until the paper separation is complete. The force to oposite direction of the Brake roller to the documents can be switched in 5 levels by the paper separation force. When the friction coefficient between the documents is high, the torque needs to be high.



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4. After paper separation, the Brake roller moves in the feeding direction by following the Separator roller.



5. The Pick encoder and Separator encoder detect the document feeding amount and difference of feeding amount at right and left. If any abnormal feeding is detected, a feeding error such as staple detection and paper jam occurs.



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The documents are separated by the Separator roller and Brake roller, and fed to the Feed rollers. 6. Any faulty feeding such as Paper jam and multifeed, and document reach are detected by each sensor. The firmware judges errors based on the detected information.



7. The documents fed properly are ejected to the Stacker. At paper ejection, the Exit motor controls the Exit roller rotation to avoid the ejected documents being scattered on the Stacker.

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									Name	fi-6800/fi-668PRF/fi-680PRB Maintenance Manual			
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2.3 Cable Connection Diagram





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										Drawing No.	P1PA03575	5≁ E	80XX/6
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2.4 Circuit Diagram



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Chapter 3 Installation

3.1 Unpacking

3.1.1 Unpacking the Scanner

- 1. This scanner weighs 32kg, 70.6lb. Carry, unpack and install the scanner by two or more personnel.
- 2. The packaging box and packaging materials are required for storage or transportation of the product. Ask the customers not to discard the packaging materials.

Follow the procedure below to unpack the scanner.

- (1) Remove the joints from the box.
- (2) Remove the upper box.
- (3) Remove the appended goods box.
- (4) Remove the cushions TF and TR, and then remove the scanner (wrapped with polyethylene bag) from the box.
- (5) Remove the scanner from the polyethylene bag.
- (6) Remove all the accessories and remove the tape protecting the scanner.

The following table lists the packaging configuration.

No.	Item	Quantity	Remarks
1	Upper package box	1	Package box size: 642 (W) x 618 (D) x 548 (H) mm 25.28 (W) x 24 33 (D) x 21.57 (H) in.
2	Cushion (TR)	1	
3	Accessory box	1	Check the contents by referring to Section 3.1.2.
4	Cushion (TF)	1	
5	Scanner	1	Wrapped with polyethylene bag
6	Cushion (BR)	1	
7	Cushion (BL)	1	
8	Joint	4	
9	Lower package box	1	
10	Bottom plate	1	



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Section 3.1.2

3.1.2 Checking the Appearance and Accessories

Check the following points for the components in the package.

- No stain and scratch that disfigures the scanner
- No missing part in the accessories
- No damage on the cables and connectors
- No damage on the brochures and discs

No.	Package	Name of Component	Quantity	Appearance	Remarks
1		Scanner	1		
2		Operator panel overlay	6		Includes the following language panels: French German Italian Spanish Chinese Russian (English panel is installed already.)
3		Power cable	1		
4		USB cable	1		
5	Accessory box	Getting Stared			
6		Safety Precautions	1		
7		SETUP DISK	1		
8		Adobe Acrobat DVD-ROM	4		
9		fi-6800 Convenient Operation	1		
10		fi-6800 Maintenance Guide	1	4/7	
11		QuickScan TM Pro brochure	1		

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3.2 Installing the Scanner

3.2.1 For Safety Installation

Before installing the scanner, read the following precautions carefully to avoid scanning trouble.

Refer to Section 1.1.3 "Environmental Specification" for information on input power and Section 1.1.2 "Scanner Specification" for outer dimensions.

- ■! Install the scanner away from strong magnetic fields and other sources of noise.
- ■! Do not install the scanner near heating apparatus or in the direct sunlight.
- ■! Install the scanner in a location which is level and subject to minimal vibration.
- ■! Do not install the scanner in locations subject to humidity and dust.
- ■! Do not block the ventilation ports.
- $\blacksquare ! Protect the scanner from static electricity.$
- ■! Use attached AC Cable, and use proper AC voltage.
- ■! Make sure the rubber pads on the bottom of the scanner are level on the table or desk.

3.2.2 Software

This product includes the SETUP DISK which contains software and the Adobe Acrobat DVD-ROM which contains Adobe Acrobat. The following is a list of software that is enclosed in each disk.

The	SETUD	DICK	includes	tha	following	coftwara
1 ne	SEIUP	DISK	menudes	une	Ionowing	sonware

No.	Software name	Description
1	FUJITSU TWAIN32 [TWAIN driver] *1	Conforms to the TWAIN standard. Used when you operate the scanner using TWAIN-compliant applications.
2	ISIS [ISIS driver] *1	Conforms to the ISIS standard. Used when you operate the scanner using ISIS-compliant applications.
3	Software Operation Panel	Configures settings for scanning behavior and consumables management. Installed together with the scanner drivers (FUITSU TWAIN 32/ISIS).
4	Error Recovery Guide	Shows the error status and the action to take when an error occurs. Can be installed together with the scanner drivers (FUHTSU TWAIN 32/ISIS). Note this guide will not work if you use Kofax VRS.
5	Image Processing Software Option	A software option featuring advanced binarization of scanned images. Can be installed together with the scanner drivers (FUJITSU TWAIN 32/ISIS).
6	Kofax VRS [VRS]*1	A software program that allows you to generate high-quality images with simple operations. The application automatically detects and corrects document skews during scanning, and characters blurred by coloring or shading.
7	ScandAll PRO	A TWAIN/ISIS-compliant image scanning software (recommended). You can define scanning settings as batch profiles, to suit your various operation requirements. By defining scanning settings as batch profiles, you can easily perform scans in accordance with various operation requirements.
8	Scan to Microsoft SharePoint	A software program that allows you to upload your files easily from ScandAll PRO to a SharePoint site. Can be installed together with ScandAll PRO.
9	QuickScan Pro Trial version	A software program for scanning that conforms to the ISIS standard. By using an ISIS scanner driver, you can read scanned documents and create their images. This is a trial version, and can be executed 30 times before it is disabled. You will need to purchase the full product version if you wish to continue using it.
10	Manuals	Includes the Getting Started, Operator's Guide, How to Use ScandAll PRO, FUJITSU TWAIN 32 User's Guide, Image Processing Software Option User's Guide, and Read Before Using VRS.

*1: Where the product name and installation name are different, square brackets are used to indicate the [Installation Name].

The Adobe Acrobat DVD-ROM includes the following software.

No.	Software name	Description
1	Adobe Acrobat Standard	The de-facto standard application used for creating, editing, managing, and making use of digitalized documents in PDF format.

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3.2.3 Installing the Bundled Software

This section describes how to install the scanner drivers that are used when scanning documents by the scanner, and software for image scanning.



1. Confirm your computer by referring to the System Requirement below before installation.

- 2.FUJITSU ISIS driver and QuickScan Pro (Trial) are not installed by [INSTALLTION (Recommended)].
 - To scan with ISIS standard, you need to install FUJITSU ISIS driver.

[System	Requirem	ents]
---------	----------	-------

Supported Operating System		Windo	ws XP		Window	's Server
Software Y: Supported N: Not guaranteed Not supported	Windows 2000 Professional	Home Edition (32bit)	Professional (32/64bit)	Windows Vista (32/64bit)	2003 R2 Standard Edition (32/64bit)	2008 Standard (32/64bit)
FUJITSU TWAIN32	Y	Y	Y	Y	Y	Y
FUJITSU ISIS	Y	Y	Y	Y	Y	Y
Software Operation Panel	Y	Y	Y	Y	Y	Y
Error Recovery Guide	Y	Y	Y	Y	Y	Y
Image Processing Software Option	Y	Y	Y	Y	Y	Y
Kofax VRS	Y	Ø	Y (*2)	Y (*1)	Ν	Ν
ScandAll Pro	Y	Y	Y	Y	Y	Y
Scan to Microsoft Share Point	Y	Y	Y	Y	Y	Y
QuickScan Pro (Trial)	Y	Y	Y (*2)	Y (*2)	Y (*2)	Y
Manuals	Y	Y	Y	Y	Y	Y

- *1: Windows Vista versions supported by Kofax VRS are as follows:
 - Windows Vista Business
 - Windows Vista Enterprise

*2: QuickScan Pro does not support the Windows 64-bit version.

<Recommended Installation Method>

- (1) Log in as a user with "Administrator" privileges.
- (2) Insert the SETUP DISK into your computer.
- (3) On the [FUJITSU Image Scanner Setup] screen, click [fi-6800], and click the [Next] button on the displayed screen.
- (4) Click the [INSTALL (Recommended)] button, and click the [Next] button on the displayed screen.
- (5) Install the software, following the on-screen instructions.

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3.2.4 Installing the Scanner

(1) Place the scanner at its installation site.



Clear the following space for installing the scanner.

Width: 860mm Depth: 1630mm

(2) Connect the scanner to your computer either with a USB or SCSI cable.

(3) Connect the power cable to the Power Connector of your scanner and to the power outlet.

NOTICE

1. If the USB or SCSI cable is connected to the USB/SCSI connector at the CGA board side, scanning is available only by "Kofax VRS" and scanning by TWAIN32 or SCSI is not available.

2. If the USB connector at the CGA board side is connected, do not turn the "SCSND" to "9". Doing so prohibits VRS operation.

3. If the cable is rewired between the CGA Board side and scanner side, turn off and back on the scanner.

4. If you connect with SCSI interface, purchase the following SCSI card and SCSI cable:



(4) Press the "|" side of the main power switch on the back to turn on the scanner.

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Chapter 4 Maintenance Parts

4.1 Maintenance Parts List

I NOPPER-UNIT PA03575-D940 I 4.21 6.71 2 STACKER-UNIT PA03575-D941 I 4.22 6.73 3 STK-UNDER-SHEET PA03575-D921 I 4.23 6.73 4 STK-STOPPER-L PA03575-D921 I 4.24 6.74 5 STK-STOPPER-L PA03575-D973 I 4.26 6.81 7 FX-COVER-L PA03575-D971 I 4.28 6.8.3 8 RV-COVER-L PA03575-D971 I 4.29 6.8.4 10 STK-UNDER-COVER PA03575-D971 I 4.210 6.8.5 11 SWPCOVER-L PA03575-D972 I 4.211 6.8.5 13 JUNO-CSL PA03575-D973 I 4.212 6.8.5 14 LCD PA03575-D973 I 4.212 6.8.5 14 LCD PA03575-D973 I 4.212 Ke 6.121 15 OFT-INIT PA03575-D973 <td< th=""><th>No.</th><th>Description</th><th>Part Number</th><th>Qua</th><th>ntity</th><th>Appearance (Section)</th><th>Replacement Procedure</th><th>Remarks</th></td<>	No.	Description	Part Number	Qua	ntity	Appearance (Section)	Replacement Procedure	Remarks
1 HOPPER-UNIT PA03575-D940 1 4.2.1 6.7.1 3 STK-UNDER,SHEET PA03575-D959 1 4.2.3 6.7.3 4 STK-STOPPER-L PA03575-D942 1 4.2.4 6.7.4 5 STK-STOPPER-L PA03575-D943 1 4.2.5 6.7.5 6 TK-COVER-L PA03575-D973 1 4.2.6 6.8.1 7 TX-COVER-R PA03575-D975 1 4.2.3 6.8.3 9 RV-COVER-R PA03575-D976 1 4.2.1 6.8.4 10 STK-UNDER-COVER PA03575-D978 1 4.2.11 6.8.6 11 TOP-COVER PA03575-D978 1 4.2.11 6.8.7 13 UNO-CSL PA03575-D930 2 4.2.13 FX* 6.12.1 14 LCD PA03575-D930 2 4.2.14 FX* 6.12.1 14 LED-GLASSERV PA03575-D931 1 4.2.19 FX* 6.12.2 17 LED-GLASSERV PA03575-						(Beetion)	(Section)	
2 STACKER-UNIT PA03575-D941 1 4.2.2 6.7.2 3 STK-UDPER-S. PA03575-D942 1 4.2.3 6.7.4 5 STK-STOPPER-L. PA03575-D943 1 4.2.4 6.7.4 5 STK-STOPPER-L. PA03575-D973 1 4.2.6 6.8.1 7 FX-COVER-L. PA03575-D975 1 4.2.7 6.8.4 9 RV-COVER-L. PA03575-D976 1 4.2.9 6.8.4 10 STK-INDER-COVER PA03575-D977 1 4.2.10 6.8.5 11 TOP-COVER. PA03575-D978 1 4.2.11 6.8.7 12 SW PCA PA03575-D9702 1 4.2.12 6.8.5 13 JUNO-CSI. PA03575-D930 2 4.2.14 6.9.2 14 LCD PA03575-D931 1 4.2.15 RX1 6.13.1 16 IED-GLASS-RY PA03575-D931 2 4.2.16 6.12.5 1 17 IED-GLA	1	HOPPER-UNIT	PA03575-D940	1		4.2.1	6.7.1	
3 STK-UNDER-SHIEET PA03575-D93 1 4.2.3 6.7.3 4 STK-STOPPER-L PA03575-D942 1 4.2.4 6.7.4 5 STK-STOPPER-L PA03575-D973 1 4.2.5 6.7.5 6 FX-COVER-L PA03575-D973 1 4.2.6 6.8.1 7 TX-COVER-L PA03575-D975 1 4.2.7 6.8.2 8 RV-COVER-L PA03575-D976 1 4.2.9 6.8.4 10 STK-UNDER-COVER PA03575-D978 1 4.2.11 6.8.5 13 UNO-CSL PA03575-D930 2 4.2.13 6.9.1 14 LCD PA03575-D930 2 4.2.17 6.12.1 16 LED-GLASS-FX PA03575-D933 1 4.2.18 6.12.2 17 LED-CLASS-FX PA03575-D933 1 4.2.17 6.12.1 18 LED-UNT-FX PA03575-D933 1 4.2.18 6.13.0 19 LED-UNT-FX PA03575-D931	2	STACKER-UNIT	PA03575-D941	1		4.2.2	6.7.2	
4 SIK-SIOPPER-L PA03575-D934 1 4.2.4 6.7.5 6 FX-COVER-L PA03575-D973 1 4.2.6 6.8.1 7 FX-COVER-R PA03575-D974 1 4.2.7 6.8.2 8 RV-COVER-R PA03575-D975 1 4.2.8 6.8.3 9 RV-COVER-R PA03575-D976 1 4.2.9 6.8.4 10 STK-UNDER-COVER PA03575-D978 1 4.2.10 6.8.6 11 TOP-COVER PA03575-D913 1 4.2.11 6.8.7 12 SW PCA PA03575-D920 2 4.2.14 6.9.1 14 LCD PA03575-D930 2 4.2.15 FX4 6.12.1 16 LED-GLASS-FX PA03575-D931 1 4.2.16 6.12.1 17 LED-GLASS-FX PA03575-D932 1 4.2.17 6.13.9 18 LED-UNTF-FX PA03575-D931 1 4.2.18 6.12.1 18 LED-UNTF-FX PA03575-D975 1 4.2.21 FX4 6.12.1 19 <td< td=""><td>3</td><td>STK-UNDER-SHEET</td><td>PA03575-D959</td><td></td><td>1</td><td>4.2.3</td><td>6.7.3</td><td></td></td<>	3	STK-UNDER-SHEET	PA03575-D959		1	4.2.3	6.7.3	
5 SIK-SIOPER-L PA03575-D943 1 4.2.5 6.7.5 6 FX-COVER-L PA03575-D973 1 4.2.6 6.8.1 7 FX-COVER-L PA03575-D975 1 4.2.7 6.8.2 8 RV-COVER-L PA03575-D975 1 4.2.9 6.8.4 10 STK-LNDER-COVER PA03575-D977 1 4.2.10 6.8.6 11 TOP-COVER PA03575-D978 1 4.2.11 6.8.7 12 SW PCA PA03575-D978 1 4.2.12 6.8.6 13 JUNO-CSL PA03575-D930 2 4.2.13 6.9.1 14 LCD PA03575-D933 1 4.2.14 FX16.12.1 16 LED-GLASS-RV PA03575-D933 1 4.2.17 6.13.10 19 LED-LUNIT-RV PA03575-D933 1 4.2.19 FX16.12.2 19 LED-LUNIT-RV PA03575-D933 1 4.2.19 FX16.12.3 19 LED-LUNIT-RV PA03575-D937	4	STK-STOPPER-S	PA03575-D942		1	4.2.4	6.7.4	
6 FACOVER.L PA0357-1974 1 4.2.6 6.8.1 7 FXCOVER.L PA03575-D974 1 4.2.7 6.8.3 9 RV-COVER.L PA03575-D975 1 4.2.8 6.8.3 10 STK-UNDER-COVER PA03575-D977 1 4.2.10 6.8.6 11 TOP-COVER PA03575-D978 1 4.2.11 6.8.7 12 SW FCA PA03575-D912 1 4.2.13 6.9.1 14 LCD PA03575-D923 1 4.2.16 6.8.7 15 OPT-UNIT PA03575-D930 2 4.2.15 FXt<6.18.1	5	STK-STOPPER-L	PA03575-D943	1	1	4.2.5	6.7.5	
// FALOVER.k. PAUS375-1974 1 4.2.7 6.8.2 8 RV-COVER.L PA03375-D975 1 4.2.9 6.8.4 10 STK-UNDER-COVER PA03375-D976 1 4.2.9 6.8.4 10 STK-UNDER-COVER PA03375-D978 1 4.2.11 6.8.7 12 SW PCA PA03375-D978 1 4.2.12 6.8.5 13 UNO-CSL PA03375-D912 1 4.2.14 6.9.2 14 LCD PA03375-D930 2 4.2.15 FXt<6.121	6	FX-COVER-L	PA03575-D973	1		4.2.6	6.8.1	
8 KV-LOVER-L PA0357-D976 1 4.2.8 6.8.3 10 STK-UNDER-COVER PA03575-D976 1 4.2.0 6.8.6 11 TOP-COVER PA03575-D978 1 4.2.10 6.8.6 12 SW PCA PA03575-D978 1 4.2.11 6.8.7 12 SW PCA PA03575-D922 1 4.2.13 6.9.1 14 LCD PA03575-D923 1 4.2.14 6.9.2 15 OPT-UNIT PA03575-D923 1 4.2.16 6.15 16 LED-GLASS-F/X PA03575-D933 1 4.2.17 6.13 18 LED-UNIT-F/X PA03575-D933 1 4.2.17 6.13 19 LED-UNIT-F/X PA03575-D933 1 4.2.17 6.13 20 BW UNIT PA03575-D937 1 4.2.21 6.12.1 21 HB-UNIT PA03575-D870 1 4.2.22 6.12.1 22 HB-UNIT PA03575-D871 1	7	FX-COVER-R	PA03575-D974	1		4.2.7	6.8.2	
9 RV-CUNERCOVER PA03575-D977 1 4.2.9 6.8.4 11 TOP-COVER PA03575-D977 1 4.2.11 6.8.7 12 SW PCA PA03575-D913 1 4.2.11 6.8.7 13 JUNO-CSL PA03575-D912 1 4.2.12 6.8.5 13 JUNO-CSL PA03575-D922 1 4.2.14 6.9.2 14 LCD PA03575-D930 2 4.2.15 RV* 6.12.1 16 LED-GLASS-EX PA03575-D933 1 4.2.17 6.13.9 18 LED-GLASS-EX PA03575-D933 1 4.2.17 6.13.9 19 LED-UNIT-RV PA03575-D931 2 4.2.20 FX* 6.12.1 20 BW UNIT PA03575-D937 1 4.2.21 RV* 6.13.6 21 HB-UNIT PA03575-D937 1 4.2.22 6.12.18 22 HB-WIT PA03575-D937 1 4.2.22 6.12.18 22 HB-WIT PA03575-D967	8	RV-COVER-L	PA03575-D975	1		4.2.8	6.8.3	
10 SIX-UNDER-COVER PA03575-D978 1 4.2.10 6.8.0 11 TOP-COVER PA03575-D978 1 4.2.12 6.8.7 12 SW PCA PA03575-D912 1 4.2.12 6.8.7 13 JUNO-CSL PA03575-D912 1 4.2.12 6.8.7 14 LCD PA03575-D922 1 4.2.14 6.9.2 15 OPT-UNIT PA03575-D930 2 4.2.17 K3 6.12 16 LED-GLASS-FX PA03575-D932 1 4.2.17 6.13.5 17 LED-UNIT-FX PA03575-D932 1 4.2.19 6.13.6 18 LED-UNIT-FX PA03575-D932 1 4.2.24 6.12.2 0 BW UNIT PA03575-D932 1 4.2.24 6.12.1 19 LED-UNIT-FX PA03575-D870 1 4.2.24 6.12.1 20 BW-MOTOR-UNIT PA03575-D8787 1 4.2.24 6.12.1 21 B-ABK-LADL-JIC7 PA03575-D877 1 4.2.24 6.12.1 23 BRAKE-ADL-J	9	RV-COVER-K	PA035/5-D9/6	1		4.2.9	6.8.4	
11 IDPECOVER PA03575-D913 1 4.2.11 6.8.7 13 JUNO-CSL PA03575-D913 1 4.2.12 6.8.5 14 LCD PA03575-D912 1 4.2.13 6.9.1 15 OPT-UNIT PA03575-D930 2 4.2.15 FX2 6.12.1 15 OPT-UNIT PA03575-D934 1 4.2.17 6.13.0 16 LED-GLASS-FX PA03575-D935 1 4.2.17 6.13.0 17 LED-GLASS-FX PA03575-D933 1 4.2.18 6.12.2 18 LED-UNIT-RV PA03575-D931 2 4.2.20 RV2 6.13.7 19 LED-UNIT-RV PA03575-D933 1 4.2.22 6.12.3 RV2 6.13.7 20 BW UNIT PA03575-D870 1 4.2.24 6.10.4 6.10.4 6.12.3 21 Bu-NOTOR-UNIT PA03575-D874 1 4.2.25 6.12.17 6.12.3 22 HB-ND PA03575-D874 1 4.2.26 6.12.17 6.12.4 23 BRAKE-MUNT	10	SIK-UNDER-COVER	PA035/5-D9//	1		4.2.10	6.8.6	
12 SW PCA PA03575-D912 1 4-2.12 0.8.3 13 JUNO-CSL PA03575-D912 1 4-2.13 6.9.1 14 LCD PA03575-D922 1 4-2.14 6.9.2 15 OPT-UNIT PA03575-D930 2 4-2.15 FX5 6.12.1 16 LED-GLASS-RX PA03575-D933 1 4-2.17 6.13.9 18 LED-UNIT-FX PA03575-D933 1 4-2.19 6.13.6 19 LED-UNIT-RV PA03575-D933 1 4-2.19 FX5 6.12.2 20 BW UNIT PA03575-D932 1 4-2.24 FX5 6.12.2 21 BW-MOTOR-UNIT PA03575-D962 2 4-2.21 FX5 6.12.7 22 HB-UNIT PA03575-D870 1 4-2.24 6.10.4 replaced 23 BRAKE-MDLJICC PA03575-D871 1 4-2.24 6.10.4 replaced 24 HB-PAD PA03575-D871 1 4-2.24 6.12.17 E6 25 BRAKE-UNIT PA03575-D977	11	TOP-COVER	PA035/5-D9/8	1		4.2.11	6.8.7	
15 JONO-CSL. PA03575-D921 1 4.2.13 6.9.1 14 LCD PA03575-D922 1 4.2.15 FXi 6.12.1 16 LED-GLASS-FX PA03575-D934 1 4.2.15 FXi 6.12.1 16 LED-GLASS-FX PA03575-D935 1 4.2.16 6.15.5 1 17 LED-GLASS-FX PA03575-D935 1 4.2.17 6.13.9 1 18 LED-UNIT-FX PA03575-D933 1 4.2.19 6.13.10 1 20 BW UNIT PA03575-D962 2 4.2.20 FXi 6.12.3 21 BW-MOTOR-UNIT PA03575-D870 1 4.2.24 6.10.4 23 BRAKE-ADLIGC PA03575-D870 1 4.2.24 6.10.4 25 B-BRK-UNIT PA03575-D870 1 4.2.24 6.10.4 25 B-BRK-UNIT PA03575-D970 1 4.2.24 6.10.4 26 BRAKE-ADLICC PA03575-D970 1 4.2.27 28 (Reserved)	12	SW PCA	PA03575-D913	1		4.2.12	0.8.5	
14 LCD PA03575-D922 1 4.2.14 6.9.2 15 OPT-UNIT PA03575-D930 2 4.2.15 FX8 6.12.1 16 LED-GLASS.FX PA03575-D934 1 4.2.16 6.12.5 17 LED-GLASS.FX PA03575-D935 1 4.2.17 6.13.9 18 LED-UNIT-FX PA03575-D933 1 4.2.18 6.02.6 19 LED-UNIT-FX PA03575-D931 2 4.2.20 FX8 6.12.2 20 BW UNIT PA03575-D932 2 4.2.21 FX8 6.12.2 21 BW-MOTOR-UNIT PA03575-D962 2 4.2.21 FX8 6.12.7 22 HB-UNIT PA03575-D976 1 42.22 6.12.18 22 HB-VNIT PA03575-D976 1 42.23 replaced 23 BRAKE-ADJ-JIG PA03575-D971 42.24 6.10.4 replaced 24 HB-PAD PA03575-D971 42.25 6.12.10 replaced 24 HB-ADJ-JIG PA03575-D970 1 42.26 6.12.20 2 27<	13	JUNO-CSL	PA03575-D912	1		4.2.13	6.9.1	
15 OPT-UNIT PA03575-D930 2 4.2.15 FA3 6.12.1 16 LED-GLASS-FX PA03575-D934 1 4.2.16 6.15.5 17 LED-GLASS-RV PA03575-D935 1 4.2.17 6.13.9 18 LED-UNIT-FX PA03575-D933 1 4.2.19 6.13.10 20 BW UNIT PA03575-D931 2 4.2.20 RV 6.13.6 21 BW-MOTOR-UNIT PA03575-D962 2 4.221 FX3 6.12.2 21 BW-MOTOR-UNIT PA03575-D870 1 4.2.24 6.10.4 23 BRAKE-ADJ-IIG? PA03575-D871 4.2.24 6.10.4 24 HB-PAD PA03575-D871 4.2.25 6.12.17 26 BBAKE-KUNIT PA03575-D977 1 4.2.26 6.12.10 29 FEED-MOT-UNIT PA03575-D976 1 4.2.27 24 REServed) 29 FEED-MOT-UNIT PA03	14	LCD	PA035/5-D922	I		4.2.14	6.9.2	
16 LED-GLASS-FX PA03575-D934 1 4.2.16 6.13.5 17 LED-GLASS-RV PA03575-D935 1 4.2.17 6.13.9 18 LED-UNIT-RV PA03575-D933 1 4.2.18 6.13.0 20 BW UNIT PA03575-D931 2 4.2.18 6.13.0 20 BW UNIT PA03575-D932 1 4.2.19 6.13.10 21 BW-MOTOR-UNIT PA03575-D962 2 4.2.21 FXt 6.12.3 21 BW-MOTOR-UNIT PA03575-D962 2 4.2.21 FXt 6.13.7 22 HB-UNIT PA03575-D970 1 42.22 6.12.18 23 BRAKE-ADJ-HG? PA03575-D971 4.2.24 6.10.4 25 B-BRK-UNIT PA03575-D971 4.2.25 6.12.17 26 BRAKE-UNIT PA03575-D971 4.2.26 6.12.20 27 HB-ADJ-JIG PA03575-D971 4.2.27 28 (Reserved) 29 FEED-MOT-UNIT PA03575-D970 1 4.2.30 6.12.12<	15	OPT-UNIT	PA03575-D930	2		4.2.15	FX≇ 6.12.1 RV⊈ 6.13.1	
17 LED-GLASS-RV PA03575-D935 1 4.2.17 6.13.0 18 LED-UNIT-FX PA03575-D933 1 4.2.19 6.13.10 20 BW UNIT PA03575-D931 2 4.2.29 RV\$ 6.13.6 21 BW-MOTOR-UNIT PA03575-D962 2 4.2.21 RV\$ 6.12.3 21 BW-MOTOR-UNIT PA03575-D970 1 4.2.22 RV\$ 6.13.7 22 HB-UNIT PA03575-D970 1 4.2.22 6.12.18 23 BRAKE-ADLJIG? PA03575-D970 1 4.2.25 6.12.17 24 HB-PAD PA03575-D974 1 4.2.26 6.12.17 26 BRAKE-UNIT PA03575-D977 1 4.2.27 25 B-BRK-UNIT PA03575-D977 1 4.2.26 6.12.17 26 BRAKE-UNIT PA03575-D977 1 4.2.27 28 (Reserved) 29 FEED-MOT-UNIT PA03575-D960 2 4.2.31 RV\$ 6.13.17 30 FEED-B	16	LED-GLASS-FX	PA03575-D934	1		4.2.16	6.12.5	
18 LED-UNIT-FX PA03575-D932 1 4.2.18 6.32.6 19 LED-UNIT-RV PA03575-D933 1 4.2.19 5.13.10 20 BW UNIT PA03575-D931 2 4.2.20 RV± 6.13.6 21 BW-MOTOR-UNIT PA03575-D962 2 4.2.21 RV± 6.13.7 22 HB-UNIT PA03575-D870 1 4.2.22 6.12.18 23 BRAKE-ADJ-JIG? PA03575-D874 1 4.2.23 Neccessary when HB Unit is replaced 24 HB-PAD PA03575-D874 1 4.2.25 6.12.17 5.12.17 26 BRAKE-UNIT PA03575-D977 1 4.2.27 28 (Reserved) 29 FEED-MOT-UNIT PA03575-D960 2 4.2.20 RV± 6.13.12 20 FEED-MOT-UNITZ PA03575-D966 2 4.2.30 6.12.10 29 FEED-MOT-UNITZ PA03575-D966 2 4.2.31 RV± 6.13.13 31 <td< td=""><td>17</td><td>LED-GLASS-RV</td><td>PA03575-D935</td><td>1</td><td></td><td>4.2.17</td><td>6.13.9</td><td></td></td<>	17	LED-GLASS-RV	PA03575-D935	1		4.2.17	6.13.9	
19 LED-UNIT-RV PA03575-D933 1 4.2.19 6.13.10 20 BW UNIT PA03575-D931 2 44.20 FX± 6.12.2 21 BW-MOTOR-UNIT PA03575-D962 2 4.221 FX± 6.12.3 22 HB-UNIT PA03575-D970 1 42.22 6.12.18 23 BRAKE-ADI-JIG7 PA03575-D875 1 42.23 Necessary when HB Unit is replaced 24 HB-PAD PA03575-D874 1 4.2.24 6.10.4 12 25 B-BRK-UNIT PA03575-D971 1 4.2.25 6.12.17 14 26 BRAKE-UNIT PA03575-D971 1 4.2.26 6.12.10 12 27 HB-ADJ-JIG PA03575-D970 1 4.2.27 28 (Reserved) 29 FEED-MOT-UNIT PA03575-D963 2 4.2.30 FX± 6.12.10 RV± 6.13.17 PA03575-D9663 2 4.2.31 FX± 6.13.17	18	LED-UNIT-FX	PA03575-D932	1		4.2.18	6.12.6	
20 BW UNIT PA03575-D931 2 4 20 (RV\$ 6.13.6) FX\$ 6.12.2 RV\$ 6.13.6 21 BW-MOTOR-UNIT PA03575-D962 2 4.291 RV\$ 6.13.6 22 HB-UNIT PA03575-D870 1 4.2.22 6.12.18 23 BRAKE-ADJ_HC? PA03575-D874 1 4.2.23 Neccessary when HB Unit is replaced 24 HB-PAD PA03575-D874 1 4.2.24 6.10.4 25 B-BRK-UNIT PA03575-D874 1 4.2.25 6.12.17 26 RAKE-UNIT PA03575-D977 1 4.2.27 28 (Reserved) 29 FEED-MOT-UNIT PA03575-D960 2 4.2.30 6.12.10 29 FEED-MOT-UNIT PA03575-D963 2 4.2.31 RV\$ 6.13.12 30 FEED-MOT-UNIT PA03575-D963 2 4.2.31 RV\$ 6.13.17 32 FEED-BELT-1 PA03575-D966 2 4.2.32 FX\$ 6.12.15 31	19	LED-UNIT-RV	PA03575-D933	1		4.2.19	6.13.10	
20 BW ONT FA037/3/D931 2 Fa23 RV* 6.13.6 21 BW-MOTOR-UNIT PA03575-D962 2 4.291 FX2 6.12.3 RV* 6.13.7 22 HB-UNIT PA03575-D870 1 4.2.22 6.12.18 23 BRAKE-ADLJIG? PA03575-D874 1 4.2.23 Neccessary when HB Unit is replaced 24 HB-PAD PA03575-D874 1 4.2.24 6.10.4 25 B-BRK-UNIT PA03575-D972 1 4.2.26 6.12.17 26 BRAKE-UNIT PA03575-D977 1 4.2.27 28 (Reserved) 29 FEED-MOT-UNIT PA03575-D960 2 4.2.30 FX± 6.12.10 RV± 6.13.12 30 FEED-MOT-UNIT PA03575-D963 2 4.2.31 RV± 6.13.12 31 LU-MOTOR-UNIT PA03575-D966 2 4.2.31 RV± 6.13.13 33 FEED-BELT-1 PA03575-D967 1 4.2.33 6.12.16	20	BW UNIT	PA03575 D031	2		1220	FX≇ 6.12.2	
21 BW-MOTOR-UNIT PA03575-D962 2 4.2p1 FX± 6.12.3 RV± 6.13.7 22 HB-UNIT PA03575-D870 1 42.22 6.12.18 23 BRAKE-ADLJIC? PA03575-D998 1 42.23 Necessary when HB Unit is replaced 24 HB-PAD PA03575-D874 1 4.2.24 6.10.4 25 B-BRK-UNIT PA03575-D874 1 4.2.25 6.12.17 26 BRAKE-UNIT PA03575-D972 1 4.2.26 6.12.20 27 HB-ADJ-JIG PA03575-D960 2 4.2.29 FX± 6.12.10 RV± 6.13.12 20 FEED-MOT-UNIT PA03575-D960 2 4.2.31 RV± 6.13.17 30 FEED-MOT-UNIT PA03575-D966 2 4.2.31 RV± 6.13.17 31 LU-MOTOR-UNIT PA03575-D966 2 4.2.32 RV± 6.13.17 32 FEED-BELT-1 PA03575-D966 2 4.2.32 RV± 6.13.13 33 FEED-BELT-2 PA03575-D970 1 4.2.32 6.13.23<	20	DW UNII	FA05575-D951	2		4.2.20	RV⊉ 6.13.6	
21 BW-MOTOR-UNIT PA03575-D820 2 4.221 RV£ 6.13.7 22 HB-UNIT PA03575-D870 1 42.22 6.12.18 23 BRAKE-ADJ-JIG? PA03575-D998 1 42.23 Neccessary when HB Unit is replaced 24 HB-PAD PA03575-D874 1 4.2.25 6.12.17 25 B-BRK-UNIT PA03575-D972 1 4.2.26 6.12.0 27 HB-ADJ-JIG PA03575-D977 1 4.2.27 28 (Reserved) 29 FEED-MOT-UNIT PA03575-D960 2 4.2.30 6.12.12 30 FEED-MOT-UNIT PA03575-D966 2 4.2.31 FX± 6.12.13 31 LU-MOTOR-UNIT PA03575-D966 2 4.2.32 6.12.15 32 FEED-BELT-1 PA03575-D970 1 4.2.32 6.13.13 33 FEED-BELT-2 PA03575-D970 1 4.2.33 6.12.15 35 <t< td=""><td>21</td><td>DW MOTOD IDUT</td><td>DA02575 D0(2</td><td>2</td><td></td><td>4.3.01</td><td>FX\$ 6.12.3</td><td></td></t<>	21	DW MOTOD IDUT	DA02575 D0(2	2		4.3.01	FX\$ 6.12.3	
22 HB-UNIT PA03575-D870 1 42.22 6.12.18 23 BRAKE-ADJJG? PA03575-D998 1 4.2.23 Necessary when HB Unit is replaced 24 HB-PAD PA03575-D874 1 4.2.24 6.10.4 25 B-BRK-UNIT PA03575-D871 4.2.25 6.12.17 26 BRAKE-UNIT PA03575-D972 1 4.2.26 6.12.20 27 HB-ADJ-JIG PA04575-D971 4.2.27 28 (Reserved) 29 FEED-MOT-UNIT PA03575-D960 2 4.2.30 6.12.12 31 LU-MOTOR-UNIT PA03575-D963 2 4.2.31 RV* 6.13.17 32 FEED-BELT-1 PA03575-D966 2 4.2.32 FX* 6.12.13 33 FEED-BELT-2 PA03575-D970 1 4.2.33 6.13.13 33 FEED-BELT-1 PA03575-D970 1 4.2.34 6.13.28 34 JUNO-MD	21	BW-MOTOR-UNIT	PA035/5-D962	2		4.2.21	RV\$ 6.13.7	
23 BRAKE-ADJ-JIG? PA03575-D998 1 4.2.23 Necessary when HB Unit is replaced 24 HB-PAD PA03575-D874 1 4.2.24 6.10.4 25 B-BRK-UNIT PA03575-D874 1 4.2.24 6.10.4 26 BRAKE-UNIT PA03575-D972 1 4.2.26 6.12.17 26 BRAKE-UNIT PA03575-D997 1 4.2.27 28 (Reserved) 29 FEED-MOT-UNIT PA03575-D960 2 4.2.29 FX± 6.12.10 30 FEED-MOT-UNIT PA03575-D963 2 4.2.31 RV± 6.13.12 31 LU-MOTOR-UNIT PA03575-D963 2 4.2.31 RV± 6.13.17 32 FEED-BELT-1 PA03575-D966 2 4.2.32 FX± 6.12.13 33 FEED-BELT-2 PA03575-D970 1 4.2.33 6.12.16 34 JUNO-MD PA03575-D970 1 4.2.35 6.13.23 37	22	HB-UNIT	PA03575-D870	1		4.2.22	6.12.18	
23 Dirkheider Frequencies replaced 24 HB-PAD PA03575-D874 1 4.2.23 replaced 25 B-BRK-UNIT PA03575-D874 1 4.2.25 6.12.17 26 BRAKE-UNIT PA03575-D977 1 4.2.26 6.12.20 27 HB-ADJ-JIG PA0575-D977 1 4.2.26 6.12.20 27 HB-ADJ-JIG PA03575-D960 2 4.2.27 28 (Reserved) 29 FEED-MOT-UNIT PA03575-D960 2 4.2.30 6.12.12 30 FEED-MOT-UNIT PA03575-D963 2 4.2.31 FX‡ 6.12.13 31 LU-MOTOR-UNIT PA03575-D966 2 4.2.32 FX‡ 6.12.15 31 SEED-BELT-1 PA03575-D967 1 4.2.33 6.12.16 34 JUNO-MD PA03575-D970 1 4.2.33 6.13.28 35 PIC-ROLLER-UNIT PA03575-D973 1 4.2.36 </td <td>22</td> <td>DDAVE ADI IIC9</td> <td>DA02575 D009</td> <td></td> <td></td> <td></td> <td></td> <td>Necessary when HB Unit is</td>	22	DDAVE ADI IIC9	DA02575 D009					Necessary when HB Unit is
24 HB-PAD PA03575-D874 1 4.2.24 6.10.4 25 B-BRK-UNIT PA03575-D871 4.2.25 6.12.17 26 BRAKE-UNIT PA03575-D972 1 4.2.26 6.12.20 27 HB-ADJ-JIG PA03575-D997 1 4.2.27 28 (Reserved) 29 FEED-MOT-UNIT PA03575-D960 2 4.2.29 FX± 6.12.10 RV± 6.13.12 30 FEED-MOT-UNIT PA03575-D966 2 4.2.30 6.12.12 31 LU-MOTOR-UNIT PA03575-D966 2 4.2.31 RV± 6.13.13 32 FEED-BELT-1 PA03575-D966 2 4.2.32 FX± 6.12.15 RV± 6.13.13 RV± 6.13.13 RV± 6.13.13 RV± 6.13.13 33 FEED-BELT-2 PA03575-D967 1 4.2.33 6.12.16 34 JUNO-MD PA03575-D967 1 4.2.34 6.13.28 35 PIC-MOTOR-UNIT PA03575-D965 1 4.2.36 6.13.23 37 GUIDE-SEP PA03575-D965 1 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
25B-BRK-UNITPA03575-D8714.2.256.12.1726BRAKE-UNITPA03575-D97214.2.266.12.2027HB-ADJ-JIGPA05575-D99714.2.2728(Reserved)29FEED-MOT-UNITPA03575-D9602 $4.2.29$ FX \pm 6.12.1030FEED-MOT-UNITPA03575-D9611 $4.2.30$ $6.12.12$ 31LU-MOTOR-UNITPA03575-D9632 $4.2.31$ FX \pm 6.12.1332FEED-BELT-1PA03575-D9662 $4.2.32$ FX \pm 6.12.1533FEED-BELT-2PA03575-D9671 $4.2.33$ $6.12.16$ 34JUNO-MDPA03575-D9671 $4.2.34$ $6.13.28$ 35PIC-ROLLER-UNITPA03575-D9701 $4.2.35$ $6.13.23$ 36PIC-MOTOR-UNITPA03575-D9731 $4.2.37$ $6.13.23$ 37GUIDE-SEPPA03575-D9731 $4.2.39$ $6.13.30$ 39EXIT-BRUSHPA03575-D9381 $4.2.39$ $6.13.30$ 39EXIT-BRUSHPA03575-D9641 $4.2.40$ $6.13.18$ 41EXIT-BELT-1PA03575-D9641 $4.2.41$ $6.13.20$ 42EXIT-BELT-1PA03575-D9381 $4.2.39$ $6.13.31$ 40EXIT-BELT-1PA03575-D9641 $4.2.42$ $6.13.21$ 41EXIT-BELT-2PA03575-D9651 $4.2.41$ $6.13.20$ 42EXIT-BELT-2PA03575-D9692	23	BRAKE-ADJ-JIO?	PA05575-D998			4.2.23		replaced
26 BRAKE-UNIT PA03575-D972 1 4.2.26 6.12.20 27 HB-ADJ-JIG PA0575-D997 1 4.2.27 28 (Reserved) 29 FEED-MOT-UNIT PA03575-D960 2 4.2.29 RV± 6.13.12 30 FEED-MOT-UNIT PA03575-D961 1 4.2.30 6.12.12 31 LU-MOTOR-DNIT PA03575-D963 2 4.2.31 RV± 6.13.17 32 FEED-BELT-1 PA03575-D966 2 4.2.32 RV± 6.13.13 33 FEED-BELT-2 PA03575-D916 1 4.2.33 6.12.16 34 JUNO-MD PA03575-D970 1 4.2.35 6.13.23 35 PIC-ROLLER-UNIT PA03575-D965 1 4.2.36 6.13.23 37 GUIDE-SEP PA03575-D938 1 4.2.39 6.13.30 39 EXIT-BUSH PA03575-D938 1 4.2.39 6.13.31 40 EXIT-BUSH	23 24	HB-PAD	PA03575-D998 PA03575-D874	1		4.2.23	6.10.4	replaced
27 HB-ADJ-JIG PA03575-D997 1 4.2.27 28 (Reserved) 29 FEED-MOT-UNIT PA03575-D960 2 4.2.29 FX± 6.12.10 RV± 6.13.12 30 FEED-MOT-UNIT2 PA03575-D961 1 4.2.30 6.12.12 31 LU-MOTOR-UNIT PA03575-D963 2 4.2.31 FX± 6.12.13 RV± 6.13.17 32 FEED-BELT-1 PA03575-D966 2 4.2.32 FX± 6.12.15 RV± 6.13.13 33 FEED-BELT-2 PA03575-D967 1 4.2.33 6.12.16 34 JUNO-MD PA03575-D970 1 4.2.35 6.13.28 35 PIC-ROLLER-UNIT PA03575-D976 1 4.2.36 6.13.23 36 PIC-MOTOR-UNIT PA03575-D978 1 4.2.36 6.13.23 37 GUIDE-SEP PA03575-D938 1 4.2.39 6.13.30 39 EXIT-BRUSH PA03575-D938 1 4.2.39 6.13.31 40 EXIT-BELT-1 PA03575-D968 1 4.2.40 6.13.18 <td>23 24 25</td> <td>HB-PAD B-BRK-UNIT</td> <td>PA03575-D998 PA03575-D874 PA03575-D871</td> <td>1</td> <td></td> <td>4.2.23 4.2.24 4.2.25</td> <td>6.10.4 6.12.17</td> <td>replaced</td>	23 24 25	HB-PAD B-BRK-UNIT	PA03575-D998 PA03575-D874 PA03575-D871	1		4.2.23 4.2.24 4.2.25	6.10.4 6.12.17	replaced
28 (Reserved) 29 FEED-MOT-UNIT PA03575-D960 2 4.2.29 FX± 6.12.10 RV± 6.13.12 30 FEED-MOT-UNIT2 PA03575-D961 1 4.2.30 6.12.12 31 LU-MOTOR-UNIT PA03575-D963 2 4.2.31 FX± 6.12.13 RV± 6.13.17 32 FEED-BELT-1 PA03575-D966 2 4.2.32 FX± 6.12.15 RV± 6.13.13 33 FEED-BELT-2 PA03575-D967 1 4.2.33 6.12.16 34 JUNO-MD PA03575-D967 1 4.2.34 6.13.28 35 PIC-ROLLER-UNIT PA03575-D970 1 4.2.35 6.13.22 36 PIC-MOTOR-UNIT PA03575-D975 1 4.2.37 6.13.23 37 GUIDE-SEP PA03575-D938 1 4.2.39 6.13.30 39 EXIT-BUSH PA03575-D938 1 4.2.40 6.13.18 41 EXIT-BELT-1 PA03575-D968 1 4.2.41 6.13.20 42	23 24 25 26	HB-PAD B-BRK-UNIT BRAKE-UNIT	PA03575-D998 PA03575-D874 PA03575-D871 PA03575-D972	1		4.2.23 4.2.24 4.2.25 4.2.26	6.10.4 6.12.17 6.12.20	replaced
29 FEED-MOT-UNIT PA03575-D960 2 4.2.29 FX± 6.12.10 30 FEED-MOT-UNITZ PA03575-D961 1 4.2.30 6.12.12 31 LU-MOTOR-UNITZ PA03575-D963 2 4.2.31 FX± 6.12.13 32 FEED-BELT-1 PA03575-D966 2 4.2.32 FX± 6.12.15 33 FEED-BELT-1 PA03575-D966 2 4.2.32 FX± 6.12.16 34 JUNO-MD PA03575-D967 1 4.2.33 6.12.16 34 JUNO-MD PA03575-D967 1 4.2.33 6.12.16 35 PIC-ROLLER-UNIT PA03575-D970 1 4.2.34 6.13.28 36 PIC-MOTOR-UNIT PA03575-D965 1 4.2.37 6.13.23 37 GUIDE-SEP PA03575-D938 1 4.2.39 6.13.30 39 EXIT-BRUSH PA03575-D939 1 4.2.40 6.13.18 41 EXIT-MOTOR PA03575-D964 1 4.2.40 6.13.20 42 EXIT-BELT-1 PA03575-D968 1 <t< td=""><td>23 24 25 26 27</td><td>HB-PAD B-BRK-UNIT BRAKE-UNIT HB-ADJ-JIG</td><td>PA03575-D998 PA03575-D874 PA03575-D871 PA03575-D972 PA03575-D997</td><td>1 1 1 1</td><td></td><td>4.2.23 4.2.24 4.2.25 4.2.26 4.2.27</td><td>6.10.4 6.12.17 6.12.20</td><td>replaced</td></t<>	23 24 25 26 27	HB-PAD B-BRK-UNIT BRAKE-UNIT HB-ADJ-JIG	PA03575-D998 PA03575-D874 PA03575-D871 PA03575-D972 PA03575-D997	1 1 1 1		4.2.23 4.2.24 4.2.25 4.2.26 4.2.27	6.10.4 6.12.17 6.12.20	replaced
29 FEED-MOT-UNIT2 PA03575-D961 1 4.2.29 RV ± 6.13.12 30 FEED-MOT-UNIT2 PA03575-D961 1 4.2.30 6.12.12 31 LU-MOTOR-DNIT PA03575-D963 2 4.2.31 FX± 6.12.13 RV± 6.13.17 32 FEED-BELT-1 PA03575-D966 2 4.2.32 FX± 6.12.15 RV± 6.13.13 33 FEED-BELT-2 PA03575-D967 1 4.2.33 6.12.16 34 JUNO-MD PA03575-D911 1 4.2.34 6.13.28 35 PIC-ROLLER-UNIT PA03575-D965 1 4.2.35 6.13.22 36 PIC-MOTOR-UNIT PA03575-D965 1 4.2.37 6.13.25 38 SEP-BRUSH PA03575-D938 1 4.2.39 6.13.30 39 EXIT-BRUSH PA03575-D964 1 4.2.40 6.13.18 41 EXIT-BELT-1 PA03575-D968 1 4.2.41 6.13.20 42 EXIT-BELT-2 PA03575-D969 2 4.2.42 6.13.21 43 JUNO-US-FX PA03575-D925 3 4.2.43 Right: 6.1.	23 24 25 26 27 28	HB-PAD B-BRK-UNIT BRAKE-UNIT HB-ADJ-JIG (Reserved)	PA03575-D974 PA03575-D874 PA03575-D871 PA03575-D972 PA03575-D997	1 1 1 1 		4.2.23 4.2.24 4.2.25 4.2.26 4.2.27	6.10.4 6.12.17 6.12.20 	replaced
30 FEED-MOT-UNIT2 PA03575-D961 1 4.2.30 6.12.12 31 LU-MOTOR-UNIT PA03575-D963 2 4.2.31 FX2 6.12.13 RV2 6.12.13 32 FEED-BELT-1 PA03575-D966 2 4.2.32 FX2 6.13.17 33 FEED-BELT-2 PA03575-D967 1 4.2.33 6.12.16 34 JUNO-MD PA03575-D970 1 4.2.34 6.13.28 35 PIC-ROLLER-UNIT PA03575-D965 1 4.2.36 6.13.23 36 PIC-MOTOR-UNIT PA03575-D965 1 4.2.37 6.13.23 36 PIC-MOTOR-UNIT PA03575-D970 1 4.2.36 6.13.23 37 GUIDE-SEP PA03575-D938 1 4.2.37 6.13.25 38 SEP-BRUSH PA03575-D939 1 4.2.39 6.13.30 39 EXIT-BRUSH PA03575-D964 1 4.2.40 6.13.18 41 EXIT-BELT-1 PA03575-D969 2 4.2.42 6.13.21 42 EXIT-BELT-2 PA03575-D969 2 4.2.42	23 24 25 26 27 28 29	HB-PAD B-BRK-UNIT BRAKE-UNIT HB-ADJ-JIG (Reserved)	PA03575-D978 PA03575-D874 PA03575-D871 PA03575-D972 PA03575-D997	1 1 1 1 2		4.2.23 4.2.24 4.2.25 4.2.26 4.2.27 	6.10.4 6.12.17 6.12.20 FX ¹ 6.12.10	replaced
31 LU-MOTOR-INIT PA03575-D963 2 4.2.31 FX± 6.12.13 RV± 6.13.17 32 FEED-BELT-1 PA03575-D966 2 4.2.32 FX± 6.12.15 RV± 6.13.13 33 FEED-BELT-2 PA03575-D967 1 4.2.33 6.12.16 34 JUNO-MD PA03575-D970 1 4.2.34 6.13.28 35 PIC-ROLLER-UNIT PA03575-D965 1 4.2.36 6.13.23 36 PIC-MOTOR-UNIT PA03575-D965 1 4.2.37 6.13.23 37 GUIDE-SEP PA03575-D938 1 4.2.39 6.13.30 39 EXIT-BRUSH PA03575-D939 1 4.2.39 6.13.31 40 EXIT-MOTOR PA03575-D966 1 4.2.40 6.13.18 41 EXIT-BELT-1 PA03575-D939 1 4.2.40 6.13.18 41 EXIT-BELT-2 PA03575-D968 1 4.2.41 6.13.20 42 EXIT-BELT-2 PA03575-D969 2 4.2.42 6.13.21 43 JUNO-US-FX PA03575-D925 3 4.2.43 Right: 6.1.4.1.2 Center	23 24 25 26 27 28 29	HB-PAD B-BRK-UNIT BRAKE-UNIT HB-ADJ-JIG (Reserved) FEED-MOT-UNIT	PA03575-D978 PA03575-D874 PA03575-D871 PA03575-D972 PA03575-D997 PA03575-D960	1 1 1 1 2		4.2.23 4.2.24 4.2.25 4.2.26 4.2.27 4.2.29	6.10.4 6.12.17 6.12.20 FX‡ 6.12.10 RV‡ 6.13.12	replaced
31 LO-MOTOR-DNI PA03575-D965 2 4.2.31 RV\$ 6.13.17 32 FEED-BELT-1 PA03575-D966 2 4.2.32 FX\$ 6.12.15 33 FEED-BELT-2 PA03575-D967 1 4.2.33 6.12.16 34 JUNO-MD PA03575-D911 1 4.2.34 6.13.28 35 PIC-ROLLER-UNIT PA03575-D970 1 4.2.35 6.13.22 36 PIC-MOTOR-UNIT PA03575-D970 1 4.2.35 6.13.23 37 GUIDE-SEP PA03575-D973 1 4.2.37 6.13.25 38 SEP-BRUSH PA03575-D938 1 4.2.39 6.13.30 39 EXIT-BRUSH PA03575-D964 1 4.2.40 6.13.18 41 EXIT-BELT-1 PA03575-D968 1 4.2.41 6.13.20 42 EXIT-BELT-2 PA03575-D925 3 4.2.43 Right: 6.1.4.1.1 43 JUNO-US-FX PA03575-D925 3 4.2.44 6.14.2	23 24 25 26 27 28 29 30	HB-PAD B-BRK-UNIT BRAKE-UNIT HB-ADJ-JIG (Reserved) FEED-MOT-UNIT FEED-MOT-UNIT2	PA03575-D998 PA03575-D874 PA03575-D871 PA03575-D972 PA03575-D997 PA03575-D960 PA03575-D961	1 1 1 1 2 1		4.2.23 4.2.24 4.2.25 4.2.26 4.2.27 4.2.29 4.2.30	6.10.4 6.12.17 6.12.20 FX ¹ 6.12.10 RV ¹ 6.13.12 6.12.12	replaced
32 FEED-BELT-1 PA03575-D966 2 4.2.32 FX± 6.12.15 RV± 6.13.13 33 FEED-BELT-2 PA03575-D967 1 4.2.33 6.12.16 34 JUNO-MD PA03575-D911 1 4.2.34 6.13.28 35 PIC-ROLLER-UNIT PA03575-D970 1 4.2.35 6.13.22 36 PIC-MOTOR-UNIT PA03575-D965 1 4.2.36 6.13.23 37 GUIDE-SEP PA03575-D973 1 4.2.38 6.13.23 38 SEP-BRUSH PA03575-D938 1 4.2.39 6.13.30 39 EXIT-BRUSH PA03575-D939 1 4.2.40 6.13.18 41 EXIT-MOTOR PA03575-D964 1 4.2.40 6.13.20 42 EXIT-BELT-1 PA03575-D968 1 4.2.41 6.13.20 43 JUNO-US-FX PA03575-D925 3 4.2.43 Right: 6.1.4.1.2 Center: 6.14.1.3 44 JUNO-US-RV PA03575-D929 3 4.2.44 6.14.2	23 24 25 26 27 28 29 30	HB-PAD B-BRK-UNIT BRAKE-UNIT HB-ADJ-JIG (Reserved) FEED-MOT-UNIT FEED-MOT-UNIT2	PA03575-D998 PA03575-D874 PA03575-D871 PA03575-D972 PA03575-D997 PA03575-D960 PA03575-D961	1 1 1 2 1		4.2.23 4.2.24 4.2.25 4.2.26 4.2.27 4.2.29 4.2.30	6.10.4 6.12.17 6.12.20 FX ¹ 6.12.10 RV ¹ 6.12.10 RV ¹ 6.13.12 6.12.12 FX ¹ 6.12.13	replaced
32 FEED-BELT-1 PA03575-D966 2 4.2.32 RV\$ 6.13.13 33 FEED-BELT-2 PA03575-D967 1 4.2.33 6.12.16 34 JUNO-MD PA03575-D911 1 4.2.34 6.13.28 35 PIC-ROLLER-UNIT PA03575-D970 1 4.2.35 6.13.22 36 PIC-MOTOR-UNIT PA03575-D965 1 4.2.37 6.13.23 37 GUIDE-SEP PA03575-D973 1 4.2.38 6.13.23 38 SEP-BRUSH PA03575-D938 1 4.2.39 6.13.30 39 EXIT-BRUSH PA03575-D939 1 4.2.40 6.13.18 40 EXIT-MOTOR PA03575-D964 1 4.2.40 6.13.18 41 EXIT-BELT-1 PA03575-D968 1 4.2.41 6.13.20 42 EXIT-BELT-2 PA03575-D969 2 4.2.42 6.13.21 43 JUNO-US-FX PA03575-D925 3 4.2.43 Right: 6.1.4.1.2 44 JUNO-US-RV PA03575-D929 3 4.2.44 6.14.2	24 25 26 27 28 29 30 31	HB-PAD B-BRK-UNIT BRAKE-UNIT HB-ADJ-JIG (Reserved) FEED-MOT-UNIT FEED-MOT-UNIT LU-MOTOR-UNIT	PA03575-D998 PA03575-D874 PA03575-D871 PA03575-D972 PA03575-D997 PA03575-D960 PA03575-D961 PA03575-D963	1 1 1 2 1 2		4.2.23 4.2.24 4.2.25 4.2.26 4.2.27 4.2.29 4.2.30 4.2.31	6.10.4 6.12.17 6.12.20 FX [‡] 6.12.10 RV [‡] 6.13.12 6.12.12 FX [‡] 6.12.13 RV [‡] 6.13.17	replaced
33 FEED-BELT-2 PA03575-D967 1 4.2.33 6.12.16 34 JUNO-MD PA03575-D911 1 4.2.34 6.13.28 35 PIC-ROLLER-UNIT PA03575-D970 1 4.2.35 6.13.22 36 PIC-MOTOR-UNIT PA03575-D965 1 4.2.36 6.13.23 37 GUIDE-SEP PA03575-D970 1 4.2.37 6.13.25 38 SEP-BRUSH PA03575-D938 1 4.2.39 6.13.30 39 EXIT-BRUSH PA03575-D939 1 4.2.40 6.13.18 40 EXIT-MOTOR PA03575-D964 1 4.2.40 6.13.18 41 EXIT-BELT-1 PA03575-D969 2 4.2.42 6.13.21 42 EXIT-BELT-2 PA03575-D969 2 4.2.42 6.13.21 43 JUNO-US-FX PA03575-D925 3 4.2.43 Right: 6.1.4.1.2 44 JUNO-US-RV PA03575-D929 3 4.2.44 6.14.2	24 25 26 27 28 29 30 31	HB-PAD B-BRK-UNIT BRAKE-UNIT HB-ADJ-JIG (Reserved) FEED-MOT-UNIT FEED-MOT-UNIT LU-MOTOR-UNIT	PA03575-D998 PA03575-D874 PA03575-D972 PA03575-D997 PA03575-D960 PA03575-D961 PA03575-D963	1 1 1 1 2 1 2		4.2.23 4.2.24 4.2.25 4.2.26 4.2.27 4.2.29 4.2.30 4.2.31	6.10.4 6.12.17 6.12.20 FX [‡] 6.12.10 RV [‡] 6.13.12 6.12.12 FX [‡] 6.12.13 RV [‡] 6.13.17 FX [‡] 6.12.15	replaced
34 JUNO-MD PA03575-D911 1 4.2.34 6.13.28 35 PIC-ROLLER-UNIT PA03575-D970 1 4.2.35 6.13.22 36 PIC-MOTOR-UNIT PA03575-D965 1 4.2.36 6.13.23 37 GUIDE-SEP PA03575-D973 1 4.2.37 6.13.25 38 SEP-BRUSH PA03575-D938 1 4.2.39 6.13.30 39 EXIT-BRUSH PA03575-D939 1 4.2.40 6.13.18 40 EXIT-MOTOR PA03575-D964 1 4.2.40 6.13.18 41 EXIT-BELT-1 PA03575-D968 1 4.2.41 6.13.20 42 EXIT-BELT-2 PA03575-D969 2 4.2.42 6.13.21 43 JUNO-US-FX PA03575-D925 3 4.2.43 Right: 6.1.4.1.2 44 JUNO-US-RV PA03575-D929 3 4.2.44 6.14.2	24 25 26 27 28 29 30 31 32	HB-PAD B-BRK-UNIT BRAKE-UNIT HB-ADJ-JIG (Reserved) FEED-MOT-UNIT FEED-MOT-UNIT LU-MOTOR-UNIT FEED-BELT-1	PA03575-D978 PA03575-D874 PA03575-D972 PA03575-D977 PA03575-D960 PA03575-D961 PA03575-D963 PA03575-D966	1 1 1 1 2 1 2 2		4.2.23 4.2.24 4.2.25 4.2.26 4.2.27 4.2.29 4.2.30 4.2.31 4.2.32	6.10.4 6.12.17 6.12.20 FX [‡] 6.12.10 RV [‡] 6.13.12 6.12.12 FX [‡] 6.12.13 RV [‡] 6.13.17 FX [‡] 6.12.15 RV [‡] 6.13.13	replaced
35 PIC-ROLLER-UNIT PA03575-D970 1 4.2.35 6.13.22 36 PIC-MOTOR-UNIT PA03575-D965 1 4.2.36 6.13.23 37 GUIDE-SEP PA03575-D873 1 4.2.37 6.13.25 38 SEP-BRUSH PA03575-D938 1 4.2.39 6.13.30 39 EXIT-BRUSH PA03575-D939 1 4.2.40 6.13.18 40 EXIT-MOTOR PA03575-D964 1 4.2.40 6.13.18 41 EXIT-BELT-1 PA03575-D968 1 4.2.41 6.13.20 42 EXIT-BELT-2 PA03575-D969 2 4.2.42 6.13.21 43 JUNO-US-FX PA03575-D925 3 4.2.43 Right: 6.1.4.1.2 44 JUNO-US-RV PA03575-D929 3 4.2.44 6.14.2	24 25 26 27 28 29 30 31 32 33	HB-PAD B-BRK-UNIT BRAKE-UNIT HB-ADJ-JIG (Reserved) FEED-MOT-UNIT FEED-MOT-UNIT2 LU-MOTOR-UNIT FEED-BELT-1 FEED-BELT-2	PA03575-D998 PA03575-D874 PA03575-D972 PA03575-D972 PA03575-D960 PA03575-D961 PA03575-D963 PA03575-D966 PA03575-D966	1 1 1 1 2 1 2 2 2		4.2.23 4.2.24 4.2.25 4.2.26 4.2.27 4.2.29 4.2.30 4.2.31 4.2.32 4.2.33	6.10.4 6.12.17 6.12.20 FX [‡] 6.12.10 RV [‡] 6.13.12 6.12.12 FX [‡] 6.12.13 RV [‡] 6.13.17 FX [‡] 6.12.15 RV [‡] 6.13.13 6.12.16	replaced
36 PIC-MOTOR-UNIT PA03575-D965 1 4.2.36 6.13.23 37 GUIDE-SEP PA03575-D873 1 4.2.37 6.13.25 38 SEP-BRUSH PA03575-D938 1 4.2.38 6.13.30 39 EXIT-BRUSH PA03575-D939 1 4.2.39 6.13.31 40 EXIT-MOTOR PA03575-D964 1 4.2.40 6.13.18 41 EXIT-BELT-1 PA03575-D968 1 4.2.41 6.13.20 42 EXIT-BELT-2 PA03575-D969 2 4.2.42 6.13.21 43 JUNO-US-FX PA03575-D925 3 4.2.43 Right: 6.1.4.1.2 Center: 6.14.1.3 44 JUNO-US-RV PA03575-D929 3 4.2.44 6.14.2	23 24 25 26 27 28 29 30 31 32 33 34	HB-PAD B-BRK-UNIT BRAKE-UNIT HB-ADJ-JIG (Reserved) FEED-MOT-UNIT FEED-MOT-UNIT2 LU-MOTOR-UNIT FEED-BELT-1 FEED-BELT-2 JUNO-MD	PA03575-D978 PA03575-D874 PA03575-D972 PA03575-D972 PA03575-D960 PA03575-D961 PA03575-D963 PA03575-D966 PA03575-D967 PA03575-D967 PA03575-D911	1 1 1 1 2 1 2 2 1 1 1		4.2.23 4.2.24 4.2.25 4.2.26 4.2.27 4.2.29 4.2.30 4.2.31 4.2.32 4.2.33 4.2.34	6.10.4 6.12.17 6.12.20 FX [‡] 6.12.10 RV [‡] 6.13.12 6.12.12 FX [‡] 6.12.13 RV [‡] 6.13.17 FX [‡] 6.12.15 RV [‡] 6.13.13 6.12.16 6.13.28	replaced
37 GUIDE-SEP PA03575-D873 1 4.2.37 6.13.25 38 SEP-BRUSH PA03575-D938 1 4.2.38 6.13.30 39 EXIT-BRUSH PA03575-D939 1 4.2.39 6.13.31 40 EXIT-MOTOR PA03575-D964 1 4.2.40 6.13.18 41 EXIT-BELT-1 PA03575-D968 1 4.2.41 6.13.20 42 EXIT-BELT-2 PA03575-D969 2 4.2.42 6.13.21 43 JUNO-US-FX PA03575-D925 3 4.2.43 Right: 6.1.4.1.2 Center: 6.14.1.3 44 JUNO-US-RV PA03575-D929 3 4.2.44 6.14.2	23 24 25 26 27 28 29 30 31 32 33 34 35	HB-PAD B-BRK-UNIT BRAKE-UNIT HB-ADJ-JIG (Reserved) FEED-MOT-UNIT FEED-MOT-UNIT2 LU-MOTOR-UNIT FEED-BELT-1 FEED-BELT-2 JUNO-MD PIC-ROLLER-UNIT	PA03575-D998 PA03575-D874 PA03575-D972 PA03575-D972 PA03575-D997 PA03575-D960 PA03575-D961 PA03575-D963 PA03575-D966 PA03575-D966 PA03575-D967 PA03575-D911 PA03575-D970	1 1 1 1 1 2 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1		4.2.23 4.2.24 4.2.25 4.2.26 4.2.27 4.2.29 4.2.30 4.2.31 4.2.32 4.2.33 4.2.34 4.2.35	6.10.4 6.12.17 6.12.20 FX [‡] 6.12.10 RV [‡] 6.13.12 6.12.12 FX [‡] 6.12.13 RV [‡] 6.12.13 RV [‡] 6.13.17 FX [‡] 6.12.15 RV [‡] 6.13.13 6.12.16 6.13.28 6.13.22	replaced
38 SEP-BRUSH PA03575-D938 1 4.2.38 6.13.30 39 EXIT-BRUSH PA03575-D939 1 4.2.39 6.13.31 40 EXIT-MOTOR PA03575-D964 1 4.2.40 6.13.18 41 EXIT-BELT-1 PA03575-D968 1 4.2.41 6.13.20 42 EXIT-BELT-2 PA03575-D969 2 4.2.42 6.13.21 43 JUNO-US-FX PA03575-D925 3 4.2.43 Right: 6.1.4.1.2 Center: 6.14.1.3 44 JUNO-US-RV PA03575-D929 3 4.2.44 6.14.2	23 24 25 26 27 28 29 30 31 32 33 34 35 36	HB-PAD B-BRK-UNIT BRAKE-UNIT HB-ADJ-JIG (Reserved) FEED-MOT-UNIT FEED-MOT-UNIT2 LU-MOTOR-UNIT FEED-BELT-1 FEED-BELT-2 JUNO-MD PIC-ROLLER-UNIT PIC-MOTOR-UNIT	PA03575-D998 PA03575-D874 PA03575-D972 PA03575-D972 PA03575-D997 PA03575-D960 PA03575-D961 PA03575-D963 PA03575-D966 PA03575-D966 PA03575-D970 PA03575-D970 PA03575-D970 PA03575-D965	1 1 1 1 1 2 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1		4.2.23 4.2.24 4.2.25 4.2.26 4.2.27 4.2.29 4.2.30 4.2.31 4.2.32 4.2.33 4.2.35 4.2.36	6.10.4 6.12.17 6.12.20 FX [‡] 6.12.10 RV [‡] 6.13.12 6.12.12 FX [‡] 6.12.13 RV [‡] 6.13.17 FX [‡] 6.12.15 RV [‡] 6.13.13 6.12.16 6.13.28 6.13.22 6.13.23	replaced
39 EXIT-BRUSH PA03575-D939 1 4.2.39 6.13.31 40 EXIT-MOTOR PA03575-D964 1 4.2.40 6.13.18 41 EXIT-BELT-1 PA03575-D968 1 4.2.41 6.13.20 42 EXIT-BELT-2 PA03575-D969 2 4.2.42 6.13.21 43 JUNO-US-FX PA03575-D925 3 4.2.43 Right: 6.1.4.1.2 Center: 6.14.1.3 44 JUNO-US-RV PA03575-D929 3 4.2.44 6.14.2	23 24 25 26 27 28 29 30 31 31 32 33 34 35 36 37	HB-PAD B-BRK-UNIT BRAKE-UNIT HB-ADJ-JIG (Reserved) FEED-MOT-UNIT FEED-MOT-UNIT2 LU-MOTOR-UNIT FEED-BELT-1 FEED-BELT-2 JUNO-MD PIC-ROLLER-UNIT PIC-MOTOR-UNIT GUIDE-SEP	PA03575-D978 PA03575-D874 PA03575-D972 PA03575-D972 PA03575-D997 PA03575-D960 PA03575-D961 PA03575-D963 PA03575-D966 PA03575-D966 PA03575-D970 PA03575-D970 PA03575-D970 PA03575-D970 PA03575-D970	1 1 1 1 1 2 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1	1	4.2.23 4.2.24 4.2.25 4.2.26 4.2.27 4.2.29 4.2.30 4.2.31 4.2.32 4.2.33 4.2.35 4.2.36 4.2.37	6.10.4 6.12.17 6.12.20 FX‡ 6.12.10 RV‡ 6.13.12 6.12.12 FX‡ 6.12.13 RV‡ 6.13.17 FX‡ 6.12.15 RV‡ 6.13.13 6.12.16 6.13.28 6.13.22 6.13.23 6.13.25	replaced
40 EXIT-MOTOR PA03575-D964 1 4.2.40 6.13.18 41 EXIT-BELT-1 PA03575-D968 1 4.2.41 6.13.20 42 EXIT-BELT-2 PA03575-D969 2 4.2.42 6.13.21 43 JUNO-US-FX PA03575-D925 3 4.2.43 Right: 6.1.4.1.2 Center: 6.14.1.3 44 JUNO-US-RV PA03575-D929 3 4.2.44 6.14.2	23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38	HB-PAD B-BRK-UNIT BRAKE-UNIT HB-ADJ-JIG (Reserved) FEED-MOT-UNIT FEED-MOT-UNIT2 LU-MOTOR-UNIT FEED-BELT-1 FEED-BELT-2 JUNO-MD PIC-ROLLER-UNIT PIC-MOTOR-UNIT GUIDE-SEP SEP-BRUSH	PA03575-D972 PA03575-D874 PA03575-D972 PA03575-D977 PA03575-D997 PA03575-D960 PA03575-D961 PA03575-D963 PA03575-D963 PA03575-D966 PA03575-D970 PA03575-D970 PA03575-D970 PA03575-D973 PA03575-D938	1 1 1 1 1 2 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1	1	4.2.23 4.2.24 4.2.25 4.2.26 4.2.27 4.2.29 4.2.29 4.2.30 4.2.31 4.2.32 4.2.33 4.2.35 4.2.36 4.2.37 4.2.38	6.10.4 6.12.17 6.12.20 FX‡ 6.12.10 RV‡ 6.12.12 FX‡ 6.12.12 FX‡ 6.12.13 RV‡ 6.13.17 FX‡ 6.12.15 RV‡ 6.13.13 6.12.16 6.13.28 6.13.23 6.13.23 6.13.25 6.13.30	replaced
41 EXIT-BELT-1 PA03575-D968 1 4.2.41 6.13.20 42 EXIT-BELT-2 PA03575-D969 2 4.2.42 6.13.21 43 JUNO-US-FX PA03575-D925 3 4.2.43 Right: 6.1.4.1.2 Center: 6.14.1.3 44 JUNO-US-RV PA03575-D929 3 4.2.44 6.14.2	23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39	HB-PAD B-BRK-UNIT BRAKE-UNIT HB-ADJ-JIG (Reserved) FEED-MOT-UNIT FEED-MOT-UNIT2 LU-MOTOR-UNIT FEED-BELT-1 FEED-BELT-2 JUNO-MD PIC-ROLLER-UNIT PIC-MOTOR-UNIT GUIDE-SEP SEP-BRUSH EXIT-BRUSH	PA03575-D972 PA03575-D874 PA03575-D972 PA03575-D977 PA03575-D997 PA03575-D960 PA03575-D960 PA03575-D961 PA03575-D963 PA03575-D966 PA03575-D967 PA03575-D970 PA03575-D970 PA03575-D970 PA03575-D970 PA03575-D970 PA03575-D938 PA03575-D938	1 1 1 1 1 2 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1		4.2.23 4.2.24 4.2.25 4.2.26 4.2.27 4.2.29 4.2.29 4.2.30 4.2.31 4.2.32 4.2.33 4.2.35 4.2.36 4.2.37 4.2.38 4.2.39	$\begin{array}{c} 6.10.4\\ 6.12.17\\ 6.12.20\\\\ FX^{\ddagger} \ 6.12.20\\ \hline \\ FX^{\ddagger} \ 6.12.10\\ RV^{\ddagger} \ 6.13.12\\ \hline \\ 6.12.12\\ FX^{\ddagger} \ 6.12.13\\ RV^{\ddagger} \ 6.12.13\\ RV^{\ddagger} \ 6.13.13\\ \hline \\ 6.12.16\\ \hline \\ 6.13.28\\ \hline \\ 6.13.22\\ \hline \\ 6.13.23\\ \hline \\ 6.13.25\\ \hline \\ 6.13.30\\ \hline \\ 6.13.31\\ \end{array}$	replaced
42 EXIT-BELT-2 PA03575-D969 2 4.2.42 6.13.21 43 JUNO-US-FX PA03575-D925 3 4.2.43 Right: 6.1.4.1.2 Center: 6.14.1.3 44 JUNO-US-RV PA03575-D929 3 4.2.44 6.14.2	23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40	HB-PAD B-BRK-UNIT BRAKE-UNIT HB-ADJ-JIG (Reserved) FEED-MOT-UNIT FEED-MOT-UNIT2 LU-MOTOR-UNIT FEED-BELT-1 FEED-BELT-2 JUNO-MD PIC-ROLLER-UNIT PIC-MOTOR-UNIT GUIDE-SEP SEP-BRUSH EXIT-BRUSH EXIT-BRUSH EXIT-MOTOR	PA03575-D974 PA03575-D874 PA03575-D972 PA03575-D9772 PA03575-D997 PA03575-D960 PA03575-D960 PA03575-D963 PA03575-D963 PA03575-D966 PA03575-D970	1 1 1 1 2 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		4.2.23 4.2.24 4.2.25 4.2.26 4.2.27 4.2.29 4.2.29 4.2.30 4.2.31 4.2.32 4.2.33 4.2.35 4.2.36 4.2.37 4.2.38 4.2.39 4.2.40	$\begin{array}{c} 6.10.4 \\ 6.12.17 \\ 6.12.20 \\ \hline \\ $	replaced
43 JUNO-US-FX PA03575-D925 3 4.2.43 Left: 6.14.1.1 Right: 6.1.4.1.2 Center: 6.14.1.3 44 JUNO-US-RV PA03575-D929 3 4.2.44 6.14.2	23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41	HB-PAD B-BRK-UNIT BRAKE-UNIT HB-ADJ-JIG (Reserved) FEED-MOT-UNIT FEED-MOT-UNIT FEED-MOT-UNIT LU-MOTOR-UNIT FEED-BELT-2 JUNO-MD PIC-ROLLER-UNIT PIC-ROLLER-UNIT PIC-MOTOR-UNIT GUIDE-SEP SEP-BRUSH EXIT-BRUSH EXIT-BRUSH EXIT-BELT-1	PA03575-D972 PA03575-D874 PA03575-D972 PA03575-D977 PA03575-D997 PA03575-D960 PA03575-D960 PA03575-D963 PA03575-D963 PA03575-D966 PA03575-D970	1 1 1 1 2 1 2 1		4.2.23 4.2.24 4.2.25 4.2.26 4.2.27 4.2.29 4.2.29 4.2.30 4.2.31 4.2.32 4.2.33 4.2.34 4.2.35 4.2.36 4.2.37 4.2.38 4.2.39 4.2.41	$\begin{array}{c} 6.10.4\\ 6.12.17\\ 6.12.20\\\\ FX^{\ddagger} \ 6.12.20\\ \hline \\ FX^{\ddagger} \ 6.12.10\\ RV^{\ddagger} \ 6.13.12\\ \hline \\ 6.12.12\\ FX^{\ddagger} \ 6.12.13\\ RV^{\ddagger} \ 6.12.13\\ RV^{\ddagger} \ 6.13.13\\ \hline \\ 6.12.16\\ \hline \\ 6.13.28\\ \hline \\ 6.13.22\\ \hline \\ 6.13.23\\ \hline \\ 6.13.25\\ \hline \\ 6.13.30\\ \hline \\ 6.13.31\\ \hline \\ 6.13.18\\ \hline \\ 6.13.20\\ \end{array}$	replaced
44 JUNO-US-RV PA03575-D929 3 4.2.44 6.14.2	24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41	HB-PAD B-BRK-UNIT BRAKE-UNIT HB-ADJ-JIG (Reserved) FEED-MOT-UNIT FEED-MOT-UNIT FEED-MOT-UNIT LU-MOTOR-UNIT FEED-BELT-2 JUNO-MD PIC-ROLLER-UNIT PIC-MOTOR-UNIT GUIDE-SEP SEP-BRUSH EXIT-BRUSH EXIT-BRUSH EXIT-BELT-1 EXIT-BELT-1 EXIT-BELT-2	PA03575-D972 PA03575-D874 PA03575-D972 PA03575-D972 PA03575-D997 PA03575-D960 PA03575-D961 PA03575-D963 PA03575-D963 PA03575-D967 PA03575-D967 PA03575-D970 PA03575-D970 PA03575-D970 PA03575-D970 PA03575-D970 PA03575-D983 PA03575-D938 PA03575-D938 PA03575-D964 PA03575-D964 PA03575-D968 PA03575-D968	1 1 1 1 2 1 2 1 2		4.2.23 4.2.24 4.2.25 4.2.26 4.2.27 4.2.29 4.2.29 4.2.30 4.2.31 4.2.32 4.2.33 4.2.34 4.2.35 4.2.36 4.2.37 4.2.38 4.2.39 4.2.41	$\begin{array}{c} 6.10.4\\ 6.12.17\\ 6.12.20\\\\ FX^{\ddagger} \ 6.12.20\\ \hline \\ FX^{\ddagger} \ 6.12.10\\ RV^{\ddagger} \ 6.13.12\\ \hline \\ 6.12.12\\ FX^{\ddagger} \ 6.12.13\\ RV^{\ddagger} \ 6.12.13\\ RV^{\ddagger} \ 6.13.13\\ \hline \\ 6.12.16\\ \hline \\ 6.13.28\\ \hline \\ 6.13.22\\ \hline \\ 6.13.23\\ \hline \\ 6.13.25\\ \hline \\ 6.13.31\\ \hline \\ 6.13.18\\ \hline \\ 6.13.20\\ \hline \\ 6.13.21\\ \hline \end{array}$	replaced
	24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43	HB-PAD B-BRK-UNIT BRAKE-UNIT HB-ADJ-JIG (Reserved) FEED-MOT-UNIT FEED-MOT-UNIT LU-MOTOR-UNIT FEED-BELT-1 FEED-BELT-2 JUNO-MD PIC-ROLLER-UNIT PIC-MOTOR-UNIT GUIDE-SEP SEP-BRUSH EXIT-BRUSH EXIT-BRUSH EXIT-BELT-1 EXIT-BELT-1 EXIT-BELT-2 JUNO-US-FX	PA03575-D972 PA03575-D874 PA03575-D972 PA03575-D972 PA03575-D997 PA03575-D960 PA03575-D961 PA03575-D963 PA03575-D963 PA03575-D967 PA03575-D967 PA03575-D970 PA03575-D970 PA03575-D970 PA03575-D970 PA03575-D970 PA03575-D988 PA03575-D938 PA03575-D964 PA03575-D968 PA03575-D969 PA03575-D925	1 1 1 1 2 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 3		4.2.23 4.2.24 4.2.25 4.2.26 4.2.27 4.2.29 4.2.29 4.2.30 4.2.31 4.2.32 4.2.33 4.2.35 4.2.36 4.2.37 4.2.38 4.2.39 4.2.40 4.2.41 4.2.43	6.10.4 6.12.17 6.12.20 FX ¹ 6.12.10 RV ¹ 6.12.10 RV ¹ 6.12.10 RV ¹ 6.12.12 FX ¹ 6.12.12 FX ¹ 6.12.13 RV ¹ 6.13.17 FX ¹ FX ¹ 6.13.13 6.12.16 6.13.28 6.13.28 6.13.28 6.13.23 6.13.23 6.13.23 6.13.21 Left: 6.13.11 Right: 6.14.1.1 Right: 6.14.1.2 Center; 6.14.1.3	replaced

Refer to Section 9.4.1 for the maintenance parts for Imprinter.

									Name	fi-6800/fi-668P Maintenan	RF/fi ce N	i-680PRB Ianual
									Drawing No.	P1PA03575	5≁ B	80XX/6
Rev.	DATE	DESIG.	CHECK	APPR.	DESCRIPTIO	DN			БГ		Daga	45 /
DES	SIG. April 2	.0,2009	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka			гаge	/383

							Section 4.1
No	Description	Part Number	Quar	tity	Appearance	Replacement	Demarks
INO.	Description	Fait Nulliber	Quai	iiiiy	(Section)	Procedure (Section)	Keillarks
						Front side Background changeove	er sensor: 6.12.4
						Hopper bottom sensor: 6.12.11	
						Brake encoder sensor: 6.12.19	
45	SENSOR	PA03575-D936	9		4.2.45	Backside Background changeover	r sensor: 6.13.8
						Manual feed sensor: 6.13.24	
						Pick position sensor: 6.13.24	
						Stacker bottom sensor: 6.13.27	
						Read top sensor: 6.13.2 IMP to	p sensor: 6.13.3
16	DDISM SENSOD	DA02575 D026	10		1216	Pick sensor: 6.13.15 Skew s	sensor: 6.13.15
40	FRISM-SENSOR	FA055/5-D920	10		4.2.40	Feed top sensor: 6.13.15 Jam set	nsor: 6.13.16
						Exit sensor: 6.13.18	
47	PHOTO-SENSOR	PA03575-D927	1		4.2.47	6.13.14	
48	EMPTY-SENSOR	PA03575-D928	1		4.2.48	6.12.14	
			_			FX\$ 6.12.7	
49	MICRO SWITCH	CA98010-2258	2		4.2.49	RV\$ 61329	
50	SNSOP DTP	PA03450 D033	1		4 2 50	6 12 /	Pacaivar sida
51	SNSOR-I IK	PA02450 D025	1		4.2.50	6 12 5	Emitter side
51	SNSOK-LED	PA03430-D933	1		4.2.51	0.15.5	Ellitter side
52	JUNU-CI	PA03575-D910	1		4.2.52	6.10.1	
55		PA03575-D915	2		4.2.53	6.10.2	
54	CGA BOARD	PA03575-D914	1		4.2.54	6.10.3	
55	DIMM_CGA	PA03575-D916	I		4.2.55	6.10.3	
56	(Reserved)						
57	(Reserved)						
58	POWER-SUPPLY	PA03575-D920	1		4.2.58	6.11.1	
59	FAN	PA03575-D921	1		4.2.59	6.11.2	
60	(Reserved)						
61	(Reserved)						
62	LATCH	PA03575-D944	1		4.2.62	6.13.32	
63	GAS DAMPER	PA03575-D945	1		4.2.63	6.15.1	
						Damper gear: 6.15.2.1	
64	DAMPER-KIT	PA03575-D872	1		4.2.64	Damper ASSY-L: 6.15.2.2	
						Damper ASSY-R: 6.15.2.3	
65	LOCK-ARM	PA03575-D949	2		4.2.65	6.13.33.1	
66	LOCK-LEVER	PA03575-D887	L	•	4.2.66	6.13.33.2	
67	USB CABLE	PA61001-0142	1		4.2.67		
68	CCD-CABLE-RV	PA03575-D989	1		4.2.68	6.10.5	
69	CSL-CABLE	PA03575-D991	1		4.2.69	6.10.6	
70	ASSIST ROLLER	PA03575-D951	1		4 2 70	6.12.8	
71	FFFD ROLLER 2	PA03575-D892	1		4 2 71	6 12 9 1	
72	FEED ROLLER 3	PA03575-D893	1		4 2 72	6 12 9 2	
72	FEED POLLER 4	PA03575 D804	1		4.2.72	6 12 0 3	
73	FEED ROLLER 5	PA03575-D894	1		4.2.73	6.12.9.5	
74	FEED ROLLER 3	1 AU33/3-D093	1		4.2.74	6 12 0 5	
13		FAU33/3-D890	1		4.2.73	0.12.9.5	
/6	EXIT ROLLER I	PA035/5-D89/			4.2.76	6.13.11.1	
//	EXIT KOLLER 2	PA03575-D898	1		4.2.77	6.13.11.2	
/8	RV-ROLLER-I	PA035/5-D881	I		4.2.78	6.13.34.1	
						Receiving Feed roller 2 drive: 6.1	3.34.2
79	RV-ROLLER-2	PA03575-D882	3		4.2.79	Receiving Feed roller 3 drive: 6.1	3.34.3
						Receiving Feed roller 4 drive: 6.1	3.34.4
						Receiving Feed roller 5 drive: 6.1	3.34.5
80	RV-ROLLER-3	PA03575-D883	4		4 2 80	Receiving Feed roller 6 drive: 6.1	3.34.6
00	RV ROLLER 5	11105575 15005			1.2.00	Receiving Exit roller 1 drive: 6.13	3.34.7
						Receiving Exit roller 2 drive: 6.13	3.34.8
81	CSL-SHEET-KIT	PA03575-D986	1		4.2.81		
82	ADJ-CHART-KIT	PA03575-D990			4.2.82		
83	ADJUSTMENT SHEET	PA03296-Y990			4.2.83		
84	TEST CHART (W)	PA03277-Y123			4.2.84		
85	ADJUST-CHART	PA93008-Y497			4.2.85		

Refer to Section 9.4.1 for the maintenance parts for Imprinter.

									Name	fi-6800/fi-668P Maintenan	RF/fi ce N	i-680PRB Ianual
									Drawing No.	P1PA03575	i≁ B	80XX/6
Rev.	DATE	DESIG.	CHECK	APPR.	DESCRIPTIO	DN			DE		Dago	46 /
DES	SIG. April 2	0,2009	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	ГГ		i aye	/383

4.2 Specifications / Appearances of Maintenance Parts

4.2.1 Hopper Unit

Description	Description Parts No.		Remarks
HOPPER-UNIT PA03575-D94		6.7.1	



4.2.2 Stacker Unit

Description	Parts No.	Replacement Procedure	Remarks
STACKER-UNIT	PA03575-D941	6.7.2	Stacker unit includes the following maintenance parts: Stacker Under Sheet Stacker Stopper S Stacker Stopper L



										Name	fi-6800/fi-668P Maintenar	RF/f ice N	i-680PRB Ianual
										Drawing No.	P1PA03575	5≁ E	BOXX/6
Rev. DE	. D. ESIG.	A T E April 2	DESIG. 0, 2009	CHECK K.Okada	APPR. CHECK	DESCRIPTIC A.Miyoshi	DN	APPR.	I.Fujioka	PF		Page	47

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4.2.3 Stacker Under Sheet

Description	Parts No.	Replacement Procedure	Remarks
STK-UNDER-SHEET	PA03575-D959	6.7.3	



4.2.4 Stacker Stopper S

Description	Parts No.	Replacement Procedure	Remarks
STK-STOPPER-S	PA03575-D942	6.7.4	
acker Stopper L		•	

4.2.5 Sta ppp

Description	Parts No.	Replacement Procedure	Remarks
STK-STOPPER-L	PA03575-D943	6.7.5	



									Name	fi-6800/fi-668P Maintenan	RF/f ce N	i-680PRB Ianual
									Drawing No.	P1PA03575	5≁ E	30XX/6
Rev.	DATE	DESIG.	CHECK	APPR.	DESCRIPTIO	DN			PF		Page	48
DE	SIG. April 2	0,2009	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka			. ago	/383

4.2.6 FX Cover L

Description	Parts No.	Replacement Procedure	Remarks
FX-COVER-L	PA03575-D973	6.8.1	



									Name fi-6800/fi-668PRF/fi-680F Maintenance Manua			
						Drawing No. P1PA					5≁ E	80XX/6
Rev.	DATE	DESIG.	CHECK	APPR.	DESCRIPTIC	DN			DE		Dogo	49 /
DES	SIG. April 2	0,2009	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	ГГ		гауе	/383

4.2.8 RV Cover L

Description	Parts No.	Replacement Procedure	Remarks
RV-COVER-L	PA03575-D975	6.8.3	



4.2.9 RV Cover R

1	Cover R			
	Description	Parts No.	Replacement Procedure	Remarks
	RV-COVER-R	PA03575-D976	6.8.4	





										Name	fi-6800/fi-668P Maintenar	RF/f	i-680PRB Ianual
										Drawing No.	P1PA0357	5≁ E	BOXX/6
Rev.	DAT	E DE	SIG.	CHECK	APPR.	DESCRIPTIO	DN			DE		Dogo	50 /
DES	SIG. Ap	ril 20, 20	09	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka			гауе	/383

4.2.11 Top Cover

Description	Parts No.	Replacement Procedure	Remarks
TOP-COVER	PA03575-D978	6.8.7	



4.2.12 J	uno SW (SW PCA) Description	Parts No.	Replacement Procedure	Remarks								
	JUNO-SW	PA03575-D913	6.8.5									
4 2 13 1	M9622 M9-T Y M9522 M9-T Y M2014 44H42 M9502 M9502 M9-T Y M2014 44H42 M9502 M9502 M9-T Y M2014 44H42 M9502 M9-T Y M2014 44H42 M9502 M9502 M9-T Y M2014 44H42 M9502 M											
4.2.13 J	Description	Parts No.	Replacement Procedure	Remarks								
	JUNO-CSL	PA03575-D912	6.9.1	EEPROM backup/restoration is required before and after replacing this part. (Refer to Section 7.1.9.)								
			H-HOLSH H-HOLS									

										Name	fi-6800/fi-668P Maintenan	RF/f ce N	i-680PRB Ianual
-										Drawing No.	P1PA03575	5≁ E	30XX/6
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4.2.14 LCD

Description	Parts No.	Replacement Procedure	Remarks
LCD	PA03575-D922	6.9.2	



									Name	fi-6800/fi-668P Maintenan	RF/f ice N	i-680PRB Ianual
									Drawing No.	P1PA03575	5≁ E	30XX/6
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4.2.16 LED Glass FX

Description	Parts No.	Replacement Procedure	Remarks
LED-GLASS-FX	PA03575-D934	6.12.5	



4.2.17 LED Glass RV

	Description	Parts No.	Replacement Procedure	Remarks
	LED-GLASS-RV	PA03575-D935	6.13.9	
	•			
				XV
4.2.18 L	ED Unit-FX			
	Description	Parts No.	Replacement Procedure	Remarks
	LED-UNIT-FX	PA03575-D932	6.12.6	
			n ges grit en se om den septem de	IN AN WERE REAL PROPERTY OF
4.2.19 L	ED Unit-RV	()		
	Description	Parts No.	Replacement Procedure	Remarks
	LED-UNIT-RV	PA03575-D933	6.13.10	
	2			
20		ar se a sector and a sector	CONTRACTOR IN CONTRACTOR	a second a s

									Name	lame fi-6800/fi-668PRF/fi-680PRB Maintenance Manual			
									Drawing No.	P1PA03575≁ B0XX/6			
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4.2.20 BW Unit

Description	Parts No.	Replacement Procedure	Remarks
BW UNIT	PA03575-D931	FX: 6.12.2 RV: 6.13.6	



4.2.21 BW Motor Unit

Description	Parts No.	Replacement Procedure	Remarks
BW-MOTOR-UNIT	PA03575-D962	FX: 6.12.3 RV: 6.13.7	



4.2.22 H	IB Unit			
	Description	Parts No.	Replacement Procedure	Remarks
	HB-UNIT	PA03575-D870	6.12.18	

										Name	fi-6800/fi-668PRF/fi-680PRB Maintenance Manual			
										Drawing No.	P1PA03575	5≁ E	80XX/6	
Rev DE	z. D ESIG.	A T E April 2	DESIG. 0, 2009	CHECK K.Okada	APPR. CHECK	DESCRIPTIC A.Miyoshi	DN	APPR.	I.Fujioka	PF	ULMITED	Page	54 383	

4.2.23 Brake Adjustment Jig

Description	Parts No.	Replacement Procedure	Remarks		
BRK-ADJ-JIG	PA03575-D998		Necessary when HB Unit is replaced.		
			>		
	4		-		

4.2.24 HB Pad

Description	Parts No.	Replacement Procedure	Remarks
HB-PAD	PA03575-D874	6.10.4	



4.2.25 B-BRK Unit

DINK UIIII			
Description	Parts No.	Replacement Procedure	Remarks
B-BRK-UNIT	PA03575-D871	6.12.17	



4.2.26 Brake Unit

Description	Parts No.	Replacement Procedure	Remarks
BRAKE-UNIT	PA03575-D972	6.12.20	



									Name	ne fi-6800/fi-668PRF/fi-680PRB Maintenance Manual		
									Drawing No.	P1PA03575	5≁ E	80XX/6
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4.2.27 HB Adjustment Jig

Description	Parts No.	Replacement Procedure	Remarks
HB-ADJ-JIG	PA03575-D997		



4.2.28 (Reserved)

Description	Parts No.	Replacement Procedure	Remarks
(Reserved)			

4.2.29 Feed Motor Unit 1

cea motor emer			
Description	Parts No.	Replacement Procedure	Remarks
FEED-MOT-UNIT	PA03575-D960	FX: 6.12.10 RV: 6.13.12	



Description	Parts No.	Replacement Procedure	Remarks
FEED-MOT-UNIT2 PA03575-D961		6.12.12	



									Name	fi-6800/fi-668P Maintenan	RF/f	i-680PRB Ianual
									Drawing No.	P1PA03575	5≁ E	30XX/6
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4.2.31 LU Motor Unit

Description	Parts No.	Replacement Procedure	Remarks
LU-MOTOR-UNIT	PA03575-D963	FX: 6.12.13 RV: 6.13.17	



4.2.32 Feed Belt 1

Description	Parts No.	Replacement Procedure	Remarks
FEED-BELT-1	PA03575-D966	FX: 6.12.15 RV: 6.13.13	Belt length: 158mm Belt width: 9mm Number of cogs: 69



4.2.33 Feed Belt 2

Description	Parts No.	Replacement Procedure	Remarks
FEED-BELT-2	PA03575-D967	6.12.16	Belt length: 800mm Belt width: 6mm Number of cogs: 400



									Name	fi-6800/fi-668P Maintenan	RF/f ce N	i-680PRB Ianual
									Drawing No.	P1PA03575	5≁ E	80XX/6
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4.2.34 Juno MD (MD PCA)

Description	Parts No.	Replacement Procedure	Remarks
JUNO-MD	PA03575-D911	6.13.28	



4.2.35 Pick Roller Unit

ich Roher Ohne			
Description	Parts No.	Replacement Procedure	Remarks
PIC-ROLLER-UNIT	PA03575-D970	6.13.22	



4.2.36 Pick Motor Unit

Description	Parts No.	Replacement Procedure	Remarks
PIC-MOTOR-UNIT	PA03575-D965	6.13.23	



									Name	fi-6800/fi-668P Maintenan	RF/f ice N	i-680PRB Ianual
									Drawing No.	P1PA03575	5≁ E	80XX/6
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4.2.37 Guide SEP

Description	Parts No.	Replacement Procedure	Remarks
GUIDE-SEP	PA03575-D873	6.13.25	



4.2.38 Separator Brush



										Name	fi-6800/fi-668P Maintenan	RF/f ce N	i-680PRB Ianual
										Drawing	P1PA03575	5 <i>-</i> ∌ P	NXX/6
										INO.	I II AUUUI C		
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4.2.40 Exit Motor

Description	Parts No.	Replacement Procedure	Remarks
EXIT-MOTOR	PA03575-D964	6.13.18	





4.2.42 Exit Belt 2

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	Description	Parts No.	Replacement Procedure	Remarks
	EXIT-BELT-2	PA03575-D969	6.13.21	Belt length: 144mm Belt width: 6mm Number of cogs: 72



										Name	fi-6800/fi-668P Maintenar	RF/f	i-680PRB Ianual
										Drawing No.	P1PA03575	5≁ E	80XX/6
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4.2.43 US Sensor FX

Description	Parts No.	Replacement Procedure	Remarks
JUNO-US-FIX	PA03575-D925	6.14.1.1 6.14.1.2 6.14.1.3	



4.2.44 US Sensor RV

	Descr	ription	Parts No.	Replacement Procedure	Remar	ks		
	JUNO-US-F	RV	PA03575-D929	6.14.2				
4.2.45 8	Sensor			A A A				
	Description	Parts No.		Replacement	Procedure	Remarks		
	SENSOR	PA03575 D9	Hopper Bott Brake Encod Front Backg Back Backg Manual Fee Pick Positio Stacker Bott	tom Sensor: Sectio der Sensor: Sectio ground Switching round Switching S d Sensor: Section n Sensor: Section tom Sensor: Section	on 6.12.11 n 6.12.19 Sensor (FX): Section 6.12.4 Sensor (RV): Section 6.13.8 6.13.24 6.13.24 on 6.13.27	Transmissive photo sensor		
			J			<u>.</u>		

										Name	fi-6800/fi-668P Maintenar	RF/f	i-680PRB Ianual
										Drawing No.	P1PA03575	5≁ E	30XX/6
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4.2.46 Prism Sensor

Description	Parts No.	Replacement Procedure	Remarks
PRISM-SENSOR	PA03575-D926	Read Top Sensor: Section 6.13.2 IMP Top Sensor: Section 6.13.3 Pick Sensor: Section 6.13.15 Skew Sensor: Section 6.13.15 Feed Top Sensor: Section 6.13.15 Jam Sensor: Section 6.13.16 Exit Sensor: Section 6.13.18	



4.2.47 Photo Sensor

Description	Parts No.	Replacement Procedure	Remarks
SENSOR	PA03575-D927	6.13.14	Reflective photo sensor



4.2.48 Empty Sensor

Description	Parts No.	Replacement Procedure	Remarks
EMPTY-SENSOR	PA03575-D928	6.12.14	



									Name	fi-6800/fi-668P Maintenar	RF/f	i-680PRB Ianual
									Drawing No.	P1PA03575	5≁ E	30XX/6
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4.2.49 Micro Switch

Description	Parts No.	Replacement Procedure	Remarks
MICRO SWITCH	CA98010-2258	FX: 6.12.7 RV: 6.13.29	



4.2.50 Sensor PTR

	Description	Parts No.	Replacement Procedure	Remarks
	SNSOR-PTR	PA03450-D933	6.13.4	Receiver side
4.2.51 S	ensor LED			
4.2.51 S	ensor LED Description	Parts No.	Replacement Procedure	Remarks
4.2.51 S	ensor LED Description SNSOR-LED	Parts No. PA03450-D935	Replacement Procedure 6.13.5	Remarks Emitter side

										Name	fi-6800/fi-668P Maintenan	RF/f ice N	i-680PRB Ianual
										Drawing No.	P1PA03575	5≁ E	80XX/6
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4.2.52 Juno CT (CT PCA)

Description	Description Parts No.		Remarks
JUNO-CT	PA03575-D910	6.10.1	



4.2.53 Memory

Description	Parts No.	Replacement Procedure	Remarks
DIMM	PA03575-D915	6.10.2	Memory for CT PCA.



* <u>Memory for CT PCA is single-sided.</u> <u>Do not confuse it with the CGA Memory.</u>

									Name	fi-6800/fi-668P Maintenar	RF/f nce N	i-680PRB Ianual
									Drawing No.	P1PA03575	5≁ E	30XX/6
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4.2.54 CGA Board

	Description	Parts No.	Replacement Procedure	Remarks
	CGA BOARD	PA03575-D914	6.10.3	Memory is mounted already.
4.2.55 C	CGA Memory			
	Description	Parts No.	Replacement Procedure	Remarks
	DIMM-CGA	PA03575-D916	6.10.3	
	From	t * CGA Memory Do not confuse	is double-sided. it with the Memo	Back

4.2.56 (Reserved)

Description	Parts No.	Replacement Procedure	Remarks	
(Reserved)				

4.2.57 (Reserved)

Description	Parts No.	Replacement Procedure	Remarks		
(Reserved)					

										Name	fi-6800/fi-668P Maintenar	RF/f ice N	i-680PRB Ianual
										Drawing No.	P1PA03575	5≁ E	BOXX/6
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4.2.58 Power Supply

Description Parts No.		Replacement Procedure	Remarks
POWER-SUPPLY	PA03575-D920	6.11.1	



4.2.60 (Reserved)

Description	Parts No.	Replacement Procedure	Remarks
(Reserved)			

4.2.61 (Reserved)

Description	Parts No.	Replacement Procedure	Remarks
(Reserved)			

										Name	fi-6800/fi-668P Maintenar	RF/f ice N	i-680PRB Ianual
										Drawing No.	P1PA03575	5≁ E	BOXX/6
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4.2.62 Latch

Description	Parts No.	Replacement Procedure	Remarks
LATCH	PA03575-D944	6.13.32	



4.2.63 Gas Damper

-				
	Description	Parts No.	Replacement Procedure	Remarks
	GAS DAMPER	PA03575-D945	6.15.1	

0			
4.2.64 D <u>amper Kit</u>			
Description	Parts No.	Replacement Procedure	Remarks
DAMPER-KIT	PA03575-D872	Damper gear: 6.15.2.1 Damper ASSY L: 6.15.2.2 Damper ASSY R: 6.15.2.3	Damper gear: 2 (Common for L/R) Damper ASSY L: White (opposite face of the gear) Damper ASSY R: Black (opposite face of the gear)
Damper 4.2.65 Lock Arm	gear	Damper ASS	YL Damper ASSY R

Description	Parts No.	Replacement Procedure	Remarks
LOCK-ARM	PA03575-D949	6.13.39	



									Name	fi-6800/fi-668P Maintenan	RF/f ice N	i-680PRB Ianual
									Drawing No.	P1PA03575	5≁ E	B0XX/6
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4.2.66 Lock Lever

Description	Parts No.	Replacement Procedure	Remarks
LOCK-LEVER	PA03575-D887	6.13.6.3	



4.2.67 USB Cable

Description	Parts No.	Replacement Procedure	Remarks
USB CABLE	PA61001-0142		



4.2.68 CCD Cable RV

Description	Parts No. Replacement Procedure	Remarks
CCD-CABLE-RV	PA03575-D989 6.10.5	Two nylon bands are attached. Reinstall the Ferrite core.



4.2.69 CSL Cable

 \Diamond

Description	Parts No.	Replacement Procedure	Remarks
CSL-CABLE	PA03575-D991	6.10.6	



									Name	fi-6800/fi-668P Maintenar	RF/f nce N	i-680PRB Ianual
									Drawing No.	P1PA03575	5≁ E	30XX/6
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4.2.70 Assist Roller

	Description	Parts No.	Replacement Procedure	Remarks
	ASSIST-ROLLER	PA03575-D951	6.12.8	
5	5			

4.2.71 Feed Roller 2

	Description	Parts No.	Replacement Procedure	Remarks
	FEED-ROLLER-2	PA03575-D892	6.12.9.1	
ES.				

4.2.72 Feed Roller 3

Description	Parts No.	Replacement Procedure	Remarks
FEED-ROLLER-3	PA03575-D893	6.12.9.2	



4.2.73 Feed Roller 4

ceu Roner T			
Description	Parts No.	Replacement Procedure	Remarks
FEED-ROLLER-4	PA03575-D894	6.12.9.3	



Description	Parts No.	Replacement Procedure	Remarks
EED-ROLLER-5	PA03575-D895	6.12.9.4	

4.2.75 Feed Roller 6

Description	Parts No.	Replacement Procedure	Remarks
FEED-ROLLER-6	PA03575-D896	6.12.9.5	

										Name	fi-6800/fi-668P Maintenar	RF/f	i-680PRB Ianual
										Drawing No.	P1PA03575	5≁ E	80XX/6
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4.2.76 Exit Roller 1





4.2.80 RV Roller 3

Description	Parts No.	Replacement Procedure	Remarks
RV-ROLLER-3	PA03575-D883	For receiving Feed roller 5 drive: 6.13.34.5 For receiving Feed roller 6 drive: 6.13.34.6 For receiving Exit roller 1 drive: 6.13.34.7 For receiving Exit roller 2 drive: 6.13.34.8	



										Name	fi-6800/fi-668P Maintenan	RF/f ce N	i-680PRB Ianual
										Drawing No.	P1PA03575	5≁ E	30XX/6
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4.2.81 CSL Sheet Kit

	Description	Parts No.	Replacement Procedure	Remarks
	CSL-SHEET-KIT	PA03575-D986		CSL sheet kit includes the CSL sheets in the following seven languages: - English - French - German - Italian - Spanish - Russian - Chinese
4.2.82 A	djustment Chart Kit	Me	nu A Gunction John Check Clear Stop Scan Scan Counter Reset Eject	
	Description	Parts No.	Replacement Procedure	Remarks
	ADJ-CHART-KIT	PA03575-D990		
4.2.83 A	djustment Sheet	()		
	Description	Parts No.	Replacement Procedure	Remarks
	ADJUSTMENT SHEET	PA03296-Y990		
4.2.84 T	est Chart			
	Description	Parts No.	Replacement Procedure	Remarks
	TEST CHART (W)	PA03277-Y123		

4.2.85 Adjustment Chart

Description	Description Parts No.		Remarks	
ADJUST-CHART	PA93008-Y497			

									Name	fi-6800/fi-668PRF/fi-680PRB Maintenance Manual		
									Drawing No.	P1PA03575≁ B0XX/6		
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Chapter 5 Troubleshooting

5.1 Troubleshooting Procedure

If an error occurs on the scanner, its details and code are displayed on the Operator Panel. The error for TWAIN driver or Error Recovery Guide may appear depending on system configuration.

Specify where the error occurs by following the procedures below.

Trouble cates	gory	Refer to (Title)	Section				
Scanner does not turn	on	Power is not turned on	5.1.1				
Malfunction after new	ion on	Scanning does not start	5.1.2.1				
Manufiction after pow	ver on	"No paper on the Hopper" appears	<mark>5.1.2.2</mark>				
	J series	Feeding section errors	<u>5.1.3.1</u>				
	U series	Cover open / Imprinting errors	<mark>5.1.3.2</mark>				
	A series	Imprinter errors	<u>5.1.3.3</u>				
Error and appears	E series	Optical errors / Memory errors	<u>5.1.3.4</u>				
End code appears	F series	Overrun errors	<u>5.1.3.5</u>				
	C series	LSI errors	<u>5.1.3.6</u>				
	H series	Motor errors	<u>5.1.3.7</u>				
	L series	Sensor errors	<u>5.1.3.8</u>				
		Scanned image is distorted	<mark>5.1.4.1</mark>				
		Resolution is not satisfactory or tone error is too large	<mark>5.1.4.2</mark>				
		Too much jitter on scanned image	<mark>5.1.4.3</mark>				
Scanned image is abn	ormal	Scanned image is misaligned	<mark>5.1.4.4</mark>				
		Scan magnification error is too large	5.1.4.5				
		Vertical streaks appear in scanned image	<mark>5.1.4.6</mark>				
		White area of scanned image is not correct	<mark>5.1.4.7</mark>				
		No printing / Printed letters are not clear	<mark>5.1.5.1</mark>				
Imprinter errors		Print form is dirty	<mark>5.1.5.2</mark>				
		Printed letters are distorted	<mark>5.1.5.3</mark>				
REN							

										Name	fi-6800/fi-668PRF/fi-680PRB Maintenance Manual		
										Drawing No.	P1PA03575≁ B0XX/6		
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5.1.1 Scanner does not turn ON

If the power is not supplied to the scanner, troubleshoot in the following procedure.

Item	Check items	How/where to check
1	Is the power cable is connected properly? If the main switch of the scanner turned on ([] side)? When you checked the two items above, press the Power button.	
2	Is the supply voltage appropriate?	(c)! Measure the supply voltage with a tester, and check that the rated voltage is achieved.
3	Does the power cable have damage?	© ! Try plugging the power cable into the other outer. © ! Check the conduction of the power cable with a tester. © ! Replace the power cable with the other cable.
4	Check each cable connection status.	 E! Remove the Operator panel, and check that the cable between SW PCA and MD PCA is connected properly. Check that the cable between MD PCA and CT PCA is connected properly. Check that the cable between the CT PCA and Power supply unit is connected properly.
5	Check whether the SW PCA is abnormal.	Replace the SW PCA and see if the error is resolved.
6	Check whether the Power supply unit is abnormal.	Replace the Power supply unit and see if the error is resolved.
7	Check whether the CT PCA is abnormal.	Replace the CT PCA and see if the error is resolved.

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									Name	fi-6800/fi-668P Maintenan	RF/f ice N	i-680PRB Ianual
									Drawing No.	P1PA03575	5≁ E	30XX/6
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5.1.2 Malfunction after power on

5.1.2.1 Scanning does not start

Power is supplied, but scanning does not start

Item No	Check items		How/wl	nere to check	
1	Does the same symptom appear after turning OFF and ON the scanner?	Turn off/on the	scanner by ret	ferring to Section	on 5.1.1.
2	If the interface cable connected properly?	E!Check SCSI	cable/USB ca	able connection	
3	Is any error code displayed on the	If an error code	e is displayed	d on the Opera	tor panel, refer to
4	Is the scanner recognized correctly?	Check the devic	e on the Cont	rol Panel or Dev	vice Manager.
		This scanner connectors, one side. The scanne connecter is use	has two US of which at see er is recognized.	SB connectors canner side, and ed differently de	and two SCSI other at CGA board epending on which
		Control Panel (S	Scanners and	Cameras)	
		Connector	Twain	ISIS	VRS
		Scanner side (USB/SCSI)	fi-6800dj	fi-6800	Inoperable
		CGA board side	Inoperable	Inoperable	Kofax VRS Scanner
		Device Manager	r		
		Connector position	Twain driver	ISIS driver	VRS driver
		Scanner side (USB/SCSI)	fi-6800dj	fi-6800	Inoperable
		CGA board side	Inoperable	Inoperable	Kofax VRS Scanner
		If the scanner is (CGA board) an	s not recogniz id see if the er	zed properly, re ror is resolved.	place the CT PCA
5	Is each sensor operating normally?	Check the follow	wing sensors:		
		Empty sense	or		
		(L) ADF open s	witch		
L		U: Top cover o	pen switch		

5.1.2.2 "No Paper on the Hopper"

Item	Check items	How/where to check
No.		
1	Does the Empty sensor move smoothly?	If the Sensor is abnormal, replace it.
2	Is the Sensor functioning effectively?	Enter Maintenance mode to check the Empty sensor operation.
		If the error persists, replace it.

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5.1.3 Error Codes

When an error occurs on this scanner, the error code and error item are displayed on the Operator Panel. (Refer to the table below.)

The displayed error code determines the abnormal part. The error codes are categorized



Error	Remarks
Feeding section errors	J series
Cover open/Imprinting errors	U series
Imprinter errors	A series
Optical errors/Memory errors	E series
Overrun errors	F series
LSI errors	C series
Motor errors	H series
Sensor errors	L series

5.1.3.1 Feeding section errors

Error code	Error message	Occurrence Conditions/Countermeasure
J0:51	Stopped scanning to prevent paper damage.	<<<0ccurrence Condition>> This error occurs when more than defined amount of documents were fed by the Pick roller and Separator roller, and the encoder (pick encoder/separator encoder) detected it. The error code is distinguished depending on the timing when the error is detected. Error code Error timing J0:51 Until the leading edge reached the Pick sensor J0:52 Until the leading edge go through the Pick sensor and reached the Pick sensor
		Revolve Unit Pick encoder
J0:52	Paper jam	 Separator encoder Separator en
J1:32	Paper jam	< <occurrence condition="">> This error occurs when sequence error between CPU's (MDC, SDC) was detected. <<countermeasure>> Perform Sensor test in the Maintenance mode. If no Sensor error is found, replace the CT PCA, and see if the error is resolved.</countermeasure></occurrence>

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Error code	Error message <detail></detail>	Occurrence Conditions/Countermeasure
J1:31	Paper jam <read jam="" sensor="" top=""></read>	Occurs when the leading edge of paper does not reach the Read top sensor even though the specified amount of paper is fed after the leading edge of the paper passed the Feed top sensor.
J1:34	Paper jam <exit 1="" jam="" sensor=""></exit>	Occurs when the leading edge of paper does not reach the EXIT sensor even though the specified amount of paper is fed after the leading edge of the paper passed the IMP top sensor.
J1:35	Paper jam <exit 2="" jam="" sensor=""></exit>	Occurs when the trailing edge of paper does not reach the EXIT sensor even though the specified amount of paper is fed after the leading edge of the paper passed the EXIT sensor.
J1:3A	Paper jam <feed 1="" jam="" sensor="" top=""></feed>	Occurs when the leading edge of paper does not reach the Feed top sensor even though the specified amount of paper is fed after the leading edge of the paper passed the Pick sensor.
J1:3B	Paper jam <feed 2="" jam="" sensor="" top=""></feed>	Occurs when the trailing edge of paper does not reach the Feed top sensor even though the specified amount of paper is fed after the leading edge of the paper passed the Feed top sensor.
J1:3C	Paper jam <read jam="" sensor="" top=""></read>	Occurs when the trailing edge of paper does not reach the Read top sensor even though the specified amount of paper is fed after the leading edge of the paper passed the Read top sensor.
J1:3D	Paper jam <imp 1="" jam="" sensor="" top=""></imp>	Occurs when the leading edge of paper does not reach the IMP top sensor even though the specified amount of paper is fed after the leading edge of the paper passed the Read top sensor.
J1:3E	Paper jam <imp 2="" jam="" sensor="" top=""></imp>	Occurs when the trailing edge of paper does not reach the IMP top sensor even though the specified amount of paper is fed after the trailing edge of the paper passed the Read top sensor.
J1:50	Paper jam <pick error=""></pick>	Occurs when the leading edge of paper does not reach the Pick sensor even after pick retry.

<<Occurrence Condition>>

This error occurs if any anomaly was found according to paper feeding status and paper feeding amount sent from each prism sensor located on the feeding path.

<<Countermeasure>>

If paper jam occurred, confirm whether the fed document satisfies the specification. Check if there is lopsided abrasion of the rollers or any obstacles on the feeding path.

If the error occurs even though paper jam does not occur, perform Sensor test in Maintenance mode to specify where the error occurs. If any error was found in the Sensor test, check no cable damage or connector defect between each sensor and MD PCA, and replace the sensors to see if the error still occurs. If the error persists, replace the MD PCA.



The following sensor error is detected if each sensor error occurred during launching:

Sensor name	Error code
Pick sensor	L0:11
Skew sensor	L5:17
Jam sensor	L7:1C
Feed top sensor	L1:12
Read top sensor	L2:13
IMP top sensor	L4:15
EXIT sensor	L3:14

EXIT sensor

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Error code	Error message <detail></detail>	Occurrence Conditions/Countermeasure
J2:55	Multifeed detected (Overlap)	«Occurrence Condition>> The Ultrasonic sensor (US sensor) detects multifeed. «Countermeasure>> Open the ADF Cover, and check if multifeed occurs. If multifeed occurs, check abrasion (check counter) and any other anomalies at the feeding section (Separator roller, Brake roller), removed the documents, and restart scanning. If multifeed has not occurred, check if there are any foreign objects or Sensor is installed correctly. If no anomaly is found, the US sensor, MD PCA or the cable between US Sensor and MD PCA may be defect. * This scanner has three US Sensors. Note: If the US sensor error is detected during launching, the error code L6:1B is displayed. Revolve Unit Fixed Unit Fixed Unit Fixed Unit US Sensor (Transmitter) US Sensor (Receiver)
J2:56	Multifeed detected (Length)	Coccurrence Condition>> This error occurs when multifeed occurs, and sub-scanning (feeding direction) of the specified paper size exceeded ###↓. * This error is applicable only when Automatic paper size detection is enabled. Countermeasure>> Remove the documents, and rescan it. If paper cannot be separated, change the torque setting or check the abrasion of the Separator roller and Brake roller. If this error occurred even when multifeed has not occurred, the following sensors may be defect. Clean the following sensors and perform Sensor test in Maintenance mode. Target sensor: Pick sensor, Feed top sensor, Read top sensor, Imprinter top sensor

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Error code	Error message <detail></detail>	Occurrence Conditions/Countermeasure
		<coccurrence condition="">> This error occurs when paper passed on the JAM sensor. If the JAM sensor error is detected during launching, the error code <u>L7:1C</u> is displayed. <countermeasure>> The paper path on the JAM sensor is out of scannable area. If this error occurs by scanning paper that satisfies the specification, skew may occurred.</countermeasure></coccurrence>
J3:54	Skew detected	Revolve Unit Jam sensor Jam sensor Jam prism
		Constitution

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Error code	Error message <detail></detail>	Occurrence Conditions/Countermeasure					
J8:01	Sensor(s) dirty <dirty pick="" sensor=""></dirty>	< <occurrence condition="">> The signal transmitted from each sensor go through the prism and back to each sensor.</occurrence>					
J8:02	Sensor(s) dirty <dirty sensor="" skew=""></dirty>	Whether document exists or not is confirmed by checking whether the signal is blocked by the document on the sensor or the signal is not blocked without document on the sensor.					
J8:03	Sensor(s) dirty <dirty feed="" sensor="" top=""></dirty>	If the received signal is less than the specified value, it is judged depressed on the sensors/prisms, and the dirty sensor error occurs. If each sensor cannot receive or adjust the signal, the sensor error occurs.					
J8:04	Sensor(s) dirty <dirty read="" sensor="" top=""></dirty>						
J8:05	Sensor(s) dirty <dirty imp="" sensor="" top=""></dirty>	Check if there are any foreign objects around the error sensor or if the sensor is installed correctly. If no anomaly is found the sensor MD PCA or the cable between the					
J8:06	Sensor(s) dirty <dirty exit="" sensor=""></dirty>	sensor and MD PCA may be defect. If no anomaly is found on the cable, specify the defect sensor in the Maintenance mode.					
J8:07	Sensor(s) dirty <dirty jam="" sensor=""></dirty>	If the error persists after cleaning the sensors and prisms, replace the sensor and see if the error is resolved. If the error still persists, replace the CT PCA and see if the error is resolved.					





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Error code	Error message <detail></detail>	Occurrence Conditions/Countermeasure
J9:61	Pick Roller error	< <occurrence condition="">> This error occurs the scanning is performed when there is paper on the Hopper and Pick Unit is set to Upper (Manual feed mode). <<countermeasure>> (P) If the Pick Unit is set to Upper lower it</countermeasure></occurrence>
		 (c) If the rick of the sector opper, rower it. (c) If more than specified amount of paper is set on the Hopper, reduce the paper. (c) If the error occurred even though the Pick Unit is not set to Upper, replace the Pick Roller Unit and see if the error is resolved.
J9:64	Brake roller/separator roller(s) not installed correctly	< <occurrence condition="">> This error occurs when torque is not loaded to the Brake roller, rotation of the Separator roller is not transmitted to the Brake roller, which results that no rotation is detected on the Brake encoder. (If torque is not loaded to the Brake roller, rotation of the Separator roller is transmitted to the Brake roller.) > Check if the Brake roller rotates smoothly. Rotates smoothly Check that the Brake roller is installed correctly. Check that the Brake roller is installed correctly, check that gears on the Brake unit and HB unit rotate smoothly. If anomaly is found, replace them. Does not rotate The Brake encoder may not detect rotation. Replace the HB unit and see if the error is resolved.</occurrence>

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5.1.3.2 Cover open/Imprinting errors

Error code	Error message <detail></detail>	Occurrence Conditions/Countermeasure
U4:40	ADF open	<section-header></section-header>
U4:41	Top cover open	<section-header></section-header>

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Cover open/Imprinting errors (Cont'd)

Error code	Error message <detail></detail>	Occurrence Conditions/Countermeasure
U6:B4	Print cartridge not installed (back-side imprinter)	< <occurrence condition="">> This error occurs if the ink cartridge is not installed although the Imprinter is installed. The error code differs depending on where it occurred. Error code Corresponding LSI U6:B4 Back-side U6:BA Front side</occurrence>
U6:BA	Print cartridge not installed (front-side imprinter)	 <<countermeasure>></countermeasure> Check if the Ink Cartridge is installed properly. Check if the Ink Cartridge and electrode section of the Holder Unit is not dirty. If dirty, clean the dirty section by referring to Section 9.8.2.1. If the error occurs even though the Ink cartridge is installed properly, the Holder Unit Ink cartridge. Joint PCA or Control PCA may be defect

<text>

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5.1.3.3 Imprinter errors

Error code	Error message <detail></detail>	Occurrence Conditions/Countermeasure
A0:B2	Imprinter error (RAM)	<coccurrence condition="">> This error occurs when access to the RAM on the Control PCA (Imprinter) is not possible. <countermeasure>> Replace the Control PCA.</countermeasure></coccurrence>
A1:B3	Imprinter error (communication timeout)	< <occurrence condition="">> This error occurs when communication between the Control PCA (Imprinter) and CT PCA is not possible. <countermeasure>> Check if the cable between the Control PCA (Imprinter) and CT PCA is damaged or connector is defect. If no problem is found, replace the Control PCA, and then the CT PCA, and see if the error is resolved.</countermeasure></occurrence>
A2:B5	Imprinter error (back-side print head)	< <occurrence condition="">> This error occurs when anomaly was found in the Imprinter head pin. <countermeasure>> Check if junctions of the Ink cartridge or Holder Unit have no anomaly. Check if the cables between the Holder Unit and Joint PCA, or the Joint PCA and Control PCA (Imprinter) are damaged or connectors are defect. If no problem is found, replace the Ink cartridge, Holder Unit, Control PCA, and then Joint PCA in the order, and see if the error is resolved. </countermeasure></occurrence>
A2:BB	Imprinter error front-side print head)	Error codeCorresponding positionA2:B5Back SideA2:BBFront side
A3:B6	Imprinter error (EEPROM)	< <occurrence condition="">> This error occurs when anomaly was found in the EERPROM in the Control PCA (Imprinter). > Replace the Control PCA (Imprinter) and see if the error is resolved.</occurrence>
A4:B8	Imprinter error (ROM)	< <occurrence condition="">> This error occurs when anomaly was found in the firmware of the Control PCA (Imprinter). > Replace the Control PCA (Imprinter) and see if the error is resolved.</occurrence>

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5.1.3.4 Optical errors/Memory errors

Error code	Error message <detail></detail>	Occurrence Conditions/Countermeasure
E2:74	Optical error (ADF Front)	<coccurrence condition="">> This error occurs when CCD output level does not reach the reference level at each Optical Unit. <countermeasure>> Check the following:</countermeasure></coccurrence>
E3:75	Optical error (ADF Back)	 White reference sheet on the background switchover section moves smoothly Coptical Unit installed correctly Dirt on the scanning section on the Optical Unit Cable damage between Optical Unit and CT PCA, connector defect If the items above are not the cause, replace the corresponding Optical Unit see if the error is resolved. If the error persists, replace the CT PCA.
E6:D3	Operator Panel error	<cocurrence condition="">> This error occurs if the old CSL PCA which has EEPROM no more is reinstalled. > Replace with a new CSL PCA. > Before replacing the CSL PCA, save the EEPROM data from the CSL PCA to the CT PCA temporarily, and restore the data to the new CSL PCA after installing it. The old CSL PCA which has EEPROM data no more becomes nonusable, and E6:D3 error occurs if it is reinstalled.</cocurrence>
E7:D2	EEPROM error	< <occurrence condition="">> This error occurs when EEPROM (mounted on CSL PCA) does not respond. <<countermeasure>> Check the connection between the CSL PCA and CT PCA. If no problem is found, the CSL PCA or CT PCA may be defect.</countermeasure></occurrence>
E8:8E	SCSI error	<cocurrence condition="">> This error occurs when SCSI fuse blown on the CT PCA is detected. > Disconnect the SCSI cable, and check if the error is resolved. If the error persists, replace the CT PCA.</cocurrence>
	2 ^f	

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Optical errors/Memory errors (Cont'd)

Error code	Error message <detail></detail>		Occurrence O	Conditions/Countermeasure
E9:F5	Image memory read-write error(F)	<< Note>> <u>Memory error m</u> < Occurrence This error occur front side at firm The error code d The error (E9:F3 standard equipm	Condition >> s when comparison error ware initialization proc liffers depending on wh 5, E9:F6) is displayed went (DIMM E1, DIMM	n English regardless of selected language. or occurred at Write/Read in the image memory for cess. ich memory or memory slot is the cause. when no memory is installed on the memory slots for
		An error occurs	if an unsupported DIM	M is installed. (DDR2)
		Error code	Corresponding slot	Remarks
		E9:F5	DIMM-F1	Memory for front side
	Image memory	E9:F6	DIMM-B1	Memory for backside
E9:F6	read-write error(B)	E9:F7	DIMM-F2	Expanded memory for front side (not used usually)
		E9:F8	DIMM-B2	Expanded memory for backside (not used usually)
E9:F7	Image memory read-write error (EXT-F)			
E9:F8	mage memory read-write error (EXT-B)	Countermea Check that the st If no problem is If the error persi	sure>> tandardized memory is found, replace the corrests, replace the CT PCA	installed correctly. esponding memory and see if the error is resolved.

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5.1.3.5 Overrun errors

Error code	Error message <detail></detail>	Occurrence Conditions/Countermeasure
F0:C0	Hopper malfunction	Coccurrence Condition>> This error occurs if the Hopper bottom sensor does not respond when the Hopper motor moves the defined distance. Countermeasure>> Check if there are any obstacles that block Hopper elevation. Check if the Hopper bottom sensor is installed correctly, and the cable between the Hopper bottom sensor and CT PCA has no damage. Perform Hopper test in Maintenance mode. (Motor test menu → Hopper) (E)! If the Hopper motor does not move or abnormal sound is heard, replace the LU motor and see if the error is resolved. (E)! If the Hopper motor moves a bit and stops, replace the Hopper bottom sensor and see if the error is resolved.
F1:C1	Stacker malfunction	< <occurrence condition="">> This error occurs if the Stacker bottom sensor does not respond when the Stacker motor moves the defined distance. <<countermeasure>> Check if there are any obstacles that block Stacker elevation. Check if the Stacker bottom sensor is installed correctly, and the cable between the Stacker bottom sensor and MD PCA has no damage. Perform Stacker test in Maintenance mode. (Motor test menu → Stacker) (E)! If the Stacker motor does not move or abnormal sound is heard, replace the LU motor and see if the error is resolved. (E)! If the Stacker motor moves a bit and stops, replace the Stacker bottom sensor and see if the error is resolved. (E)! If the error nersists replace the MD PCA</countermeasure></occurrence>

_____persists, replace the MDF

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Overrun errors (Cont'd)

Error code	Error message <detail></detail>	Occurrence Conditions/Countermeasure
		< <occurrence condition="">> This error occurs if the Background Switching sensor does not respond when the Background Switching motor for front side moves the defined distance.</occurrence>
		< <note>> The background Switching unit for front side is installed on the Fixed Unit.</note>
F4:C2	Background switching mechanism error (F)	< <countermeasure>> Check if the Background Switching motor for front side is initialized while the scanner is starting up.</countermeasure>
		If the error occurs even though initialization was performed, check if the cable between the Background switching sensor and CT PCA is damaged.
		If the cable is not damaged, replace the Background Switching sensor and see if the error is resolved.
		If initialization is not performed while the scanner is starting up, replace the Background Switching motor and see if the error is resolved.
		This error occurs if the Background Switching sensor does not respond when the Background Switching motor for backside moves the defined distance.
		< <note>> The background Switching unit for backside is installed on the Revolve Unit.</note>
F4:C3	Background switching	< <countermeasure>> Check if the Background Switching motor for backside is initialized while the scanner is</countermeasure>
		starting up. If the error occurs even though initialization was performed, check if the cable between the Background switching sensor and MD PCA is damaged
		If the cable is not damaged, replace the Background Switching sensor and see if the error is resolved.
		If initialization is not performed while the scanner is starting up, replace the Background Switching motor and see if the error is resolved.
		If the effor persists, replace the MD PCA. <<occurrence condition="">></occurrence>
		This error occurs when the cooling fan rotation is not detected.
F6:EC	Fan error	Countermeasure >> Check if the cable between the cooling fan and CT PCA is damaged or the connector is
		defect.
		If the error persists, replace the CT PCA.
	X	

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5.1.3.6 LSI errors

Error code	Error message <detail></detail>	Occurrence Conditions/Countermeasure
C0:E5	Memory error (F)	< <occurrence condition="">> This error occurs when comparison error occurred at Write/Read in the LSI RAM at firmware initialization process. The error code differs depending on the error occurred at front or backside. Error code Corresponding LSI</occurrence>
C0:E6	Memory error (B)	C0:E5 Front side C0:E6 Backside < <countermeasure>> Replace the CT PCA and see if the error is resolved</countermeasure>
C0:E9	LSI error (F)	< <occurrence condition="">> This error occurs when register access cannot be made. The error code differs depending on the error occurred at front or backside. Error code Corresponding LSI C0:E9 Front side</occurrence>
C0:EA	LSI error (B)	C0:EA Backside < <countermeasure>> Replace the CT PCA and see if the error is resolved</countermeasure>
C6:EF	SPC error	< <occurrence condition="">> This error occurs when anomaly is detected at SCSI controller initialization. <<countermeasure>> Replace the CT PCA and see if the error is resolved.</countermeasure></occurrence>
C6:F9	USB error	< <occurrence condition="">This error occurs when anomaly is detected at USB controller initialization.<<countermeasure>>Replace the CT PCA and see if the error is resolved.</countermeasure></occurrence>
C8:F0	Internal communication error of the scanner	<cocurrence condition="">> This error occurs when the communication between CT PCA and MD PCA has no response which results in communication timeout. > Check if the cable between the CT PCA and MD PCA is connected properly. If the connection is correct, the CT PCA or MD PCA may be defect.</cocurrence>

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5.1.3.7 Motor errors

Error code	Error message <detail></detail>	Fuse installed on	Occurrence Conditions/Countermeasure
H1:80	Motor circuit error <feed 1="" alarm="" motor=""></feed>	CT PCA	Operational Principle>> The resettable fuses are automatic restoration type, which are mounted on the CT PCA and MD PCA. A provisional
H1:8A	Motor circuit error <feed 2="" alarm="" motor=""></feed>	CT PCA	Removing the cause of overcurrent recovers in ten seconds.
H1:8B	Motor circuit error <exit alarm="" motor=""></exit>	MD PCA	This error occurs when overcurrent is allowed to the resettable fuses on the CT PCA or MD PCA, which blocks each fuse.
H2:81	Motor circuit error <separator alarm="" motor=""></separator>	CT PCA	The following defects are assumed as occurrence conditions.D Short circuit by the cable between CT PCA/MD PCA
H2:82	Motor circuit error <pick alarm="" motor=""></pick>	MD PCA	 and corresponding motor/lamp caught Defect of corresponding motors and lamps Defect of CT PCA or MD PCA
H2:8F	Motor circuit error <clutch alarm="" motor=""></clutch>	CT PCA	< Countermeasure>> Check if the cable between the corresponding motor/lamp
H2:90	Motor circuit error <pick alarm="" solenoid=""></pick>	MD PCA	If no damage is found on the cable, replace the corresponding motor/lamp and see if the error is resolved. If the error persists, replace the CT PCA and MD PCA.
H3:8C	Motor circuit error <hopper alarm="" motor=""></hopper>	CT PCA	
H4:8D	Motor circuit error <stacker alarm="" motor=""></stacker>	MD PCA	
H5:86	Motor circuit error <md alarm="" pca=""></md>	CT PCA	
H6:B1	Imprinter system error <imprinter alarm=""></imprinter>	CT PCA	
H7:84	Lamp circuit error <led (f)="" alarm=""></led>	MD PCA	
H7:85	Lamp circuit error, <led (b)="" alarm=""></led>	CT PCA	
H8:88	Motor circuit error <background alarm<br="" motor="" switchover="">for front> <fixed side="" unit=""></fixed></background>	CT PCA	
H8:89	Motor circuit error <background alarm<br="" motor="" switchover="">for back> <revolve side="" unit=""></revolve></background>	MD PCA	
H9:91	CCD 24V error <optical alarm="" unit=""> <for and="" backside="" front=""></for></optical>	CT PCA	

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5.1.3.8 Sensor errors

Error code	Error message <detail></detail>	Occurrence Conditions/Countermeasure						
L0:11	Sensor error <pick error="" sensor=""></pick>	< <operational principle="">> The current is emitted by the following sensors, reflected by the Prism, and returns to the receiver of the sensor. Paper existence is confirmed by checking</operational>						
L1:12	Sensor error <feed-top error="" sensor=""></feed-top>	whether communication is lost because it is cut by paper between the sensor and prism.						
L2:13	Sensor error <read-top error="" sensor=""></read-top>	< <occurrence condition="">> This error occurs when the receiver outputs the current even though the current emitted by the sensor is 0, or the output from the receiver is</occurrence>						
L3:14	Sensor error <exit error="" sensor=""></exit>	small even though the emitted current is raised to maximum. The following defects are assumed as occurrence conditions.						
L4:15	Sensor error <imp-top error="" sensor=""></imp-top>	 Foreign object between the sensor and prism Installation error (slant) of the sensor and prism Cable damage between the sensor and MD PCA Faulty sensor 						
L5:17	Sensor error <skew error="" sensor=""></skew>	Faulty MD PCA < Countermeasure>> 						
L7:1C	Sensor error <jam error="" sensor=""></jam>	Check the slant or foreign objects (paper strip) in the sensor and prism. If no damage is found on the cable between the Sensor and MD PCA, perform Sensor test to specify a faulty sensor, and replace it. If the error persists, replace the MD PCA and see if the error is .resolved.						
Rev	olve Unit	Pick Sensor						
	JAM Sensor Skew Sensor Pick Sensor Feed Top Sensor Read Top Sensor IMP Top Sensor							
JAM P	ixed Unit IMP Rea Fee rism Skew Prism	Top Prism d Top Prism d Top Prism Pick Prism						

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Sensor errors (Cont'd)

Error code	Error message <detail></detail>	Occurrence Conditions/Countermeasure
L6:1B	Sensor error <us error="" sensor=""></us>	<<operating principle="">></operating> The Ultrasonic sensor (US sensor) transmits the ultrasonic wave from the transmitter (Revolve unit), and the receiver (Fixed Unit) receives it. The error is detected as a result that the receiver of the US sensor checked the ultrasonic wave variance that passed the layer of air between paper when several pages of documents go through the sensor area. <<occurrence condition="">></occurrence> This error occurs when voltage other than specified value (0.5 ~ 1.2V) is received even though the Sensor transmission is halting state, or when the received voltage is specified voltage or lower (2.5V) even though the Sensor is transmitting the ultrasonic wave. The following defects are assumed as occurrence conditions. D Foreign objects between the US sensor RV and US sensor FX E Installation error (slant) of US sensor RV and US sensor FX F Cable damage between the US sensor RV and MD PCA G Cable damage between the US sensor FX and CT PCA H Faulty US sensor RV or US sensor FX T Faulty MD PCA and CT PCA <<countermeasure>></countermeasure> Check the slant or foreign objects (paper strip) in the US Sensor RV and MD PCA, or the cable between US Sensor FX and CT PCA perform Sensor test to specify a faulty sensor, and replace it. If the error persists, replace the MD PCA and CT PCA and see if the error persists, replace the MD PCA and CT PCA and see if the error persists, replace the MD PCA and CT PCA and see if the error persists, replace the MD PCA and CT PCA and see if the error persists, replace the MD PCA and CT PCA and see if the error persists, replace the MD PCA and CT PCA and see if the error persists, replace the MD PCA and CT PCA and see if the error persists, replace the MD PCA and CT PCA and see if the error persists, replace the MD PCA and CT PCA and see if the error persists, replace the MD PCA and CT PCA and see if the error persists, replace the MD PCA and CT PCA and see if the error persists, replace the MD PCA and CT PCA and see if the error persists, replace the MD PCA and CT PCA and see if the error persists
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5.1.4 Scanned image is abnormal

When the scanned image is abnormal, select the symptom from the list below.

Trouble category	Refer to
Scanned image is distorted	Section 5.1.4.1
Resolution is not satisfactory or tone error is too large	Section 5.1.4.2
Too much jitter on scanned image	Section 5.1.4.3
Scanned image is misaligned	Section 5.1.4.4
Scan magnification error is too large	Section 5.1.4.5
Vertical streaks appear in scanned image	Section 5.1.4.6
White area of scanned image is not correct	Section 5.1.4.7

5.1.4.1 Scanned image is distorted

Item No.	Check items	How/where to check
1	Check the items listed in the right column.	 Check the interface cable (SCSI or USB) connection. If any temporary error or alarm is indicated, follow the corresponding troubleshooting.
2	Are the cables between the CT PCA and Optical Unit damaged? Is the connector connected correctly? If no anomaly is found on the cables and connection, replace the Optical Unit and see if the error is resolved.	ADF front scanning (Revolve Unit). Refer to Section 6.13.1. ADF back scanning (Fixed Unit). Refer to Section 6.12.1.
3	Replace the CT PCA and see if the error is resolved.	Refer to Section 6.10.1.

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5.1.4.2 Resolution is not satisfactory or tone error is too large

Itom	Chook items	How/where to sheak
N	Check items	HOW/WHELE tO CHECK
NO.		· ·
1	Check the items listed in the right column.	(b)! Does the document satisfy the paper specifications?
		(E)! Are the scan settings (resolution/density) correctly
		specified for the application software used?
		(E)! Check the interface cable (SCSI or USB) connection.
		(E)! If any temporary error or alarm is indicated, follow the
		corresponding troubleshooting
2	Clean the scanning area (glass) and see if	Refer to Section 6.3.2
-	the error is resolved	
3	Remove the scanning glass and clean the	Refer to Section 6.3.2
5	hack of the glass and scanning glass surface	
	on the Ontical Unit	
	Is the optical Unit.	
4		
4	Clean the feed rollers and pinch rollers, and	Refer to Section 8.3.
	see if the error is resolved.	
5	Is the Optical Unit clean?	Refer to Section 6.3.1.
	Check damages and dirt on the cables for	
	the Optical Unit, LED Unit and BW Unit	
6	Replace the Optical Unit, and see if the	FX side: Refer to Section 6.12.1.
	error is resolved.	RV side: Refer to Section 6.13.1.
7	Replace the LED Unit, and see if the error	FX side: Refer to Section 6.12.6
	is resolved.	RV side: Refer to Section 6.13.10.
8	Replace the CT PCA, and see if the error is	Refer to Section 6.10.1.
	resolved.	

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5.1.4.3 Too much jitter on scanned image

The following shows the sample of scanned image when "jitter" error occurs. This error occurs when feeding around the scanning section is not smooth. Check the feeding.

Scanned image with jitter

Normal scanned image

ABCDEFG ABCDEFG

Item	Check items	How/where to check			
No.					
1	Does the document satisfy the paper specification?	Refer to Section 1.2.			
2	Do any obstacles get inside and block paper feeding?	Remove obstacles if any, and see if the error is resolved.			
3	Are any foreign obstacles stuck on the Feed rollers or Pinch rollers? Are these rollers distorted?	Clean or replace any faulty rollers, and see if the error is resolved.			
4	Are the Pick rollers, Separator roller and Brake roller worn away or distorted?	Check the consumable counter on the Software Operation Panel (Section XXXXX) or Maintenance mode (Section XXXXX). Make sure that the counter is not exceeding the specified number of sheets and rollers are not distorted. If any anomaly is found, clean or replace the rollers, and see if the error is resolved			
5	Check that the cables between the CT PCA correctly.	and Feed motor are not damaged and the connector connected			
6	Check the Optical Unit installation at the abnormal scanning side.	Reinstall it if not installed correctly.			
7	Check the abnormal Optical Unit installation.	ADF front scanning (Revolve Unit): Refer to Section 6.13.1. ADF back scanning (Fixed Unit): Refer to Section 6.12.1.			
8	Are the Feed belt 1, Feed belt 2 and Exit belt damaged? Is the connector connected correctly?	Feed belt 1: Refer to Sections 6.12.15, 6.13.13. Feed belt 2: Refer to Section 6.12.16.			
9	Replace the Feed motor, and see if the error is resolved.	Refer to Section 6.12.10.			
10	Replace the Exit motor, and see if the error is resolved.	Refer to Section 6.13.18.			
11	Replace the Optical Unit, and see if the error is resolved.	FX: Refer to Section 6.12.1. RV: Refer to Section 6.13.1.			

5.1.4.4 Scanned image is misaligned

You can move the Hopper guides on the scanner separately.

If the image is misaligned with main scanning (Landscape) direction, check that the side guide is bilaterally symmetrical.

Item	Check items	How/where to check			
No.					
1	Check that the side guide is bilaterally	Refer to Section 8.1.6.			
	symmetrical.				
2	Check the items listed in the right column.	E! Does the document satisfy the paper specifications?			
		(Refer to Section 1.2.)			
		(E)! Are the scan settings (paper size) correctly specified			
		for the application software used?			
3	Check if the user-specific offset adjustment is	performed on the Software Operation Panel.			
	(Refer to Section 8.6.1.)				
4	Clean the Feed rollers and Pinch rollers, and	Refer to Section 8.3.			
	see if the error is resolved.				
5	Perform Offset adjustment in Maintenance	Refer to Section 7.1.3.			
	mode #3 to check the offset.				
6	Check the Optical Unit installation.	FX: Refer to Section 6.12.1.			
	_	RV: Refer to Section 6.13.1.			

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5.1.4.5 Scan magnification error is too large

Item	Check items	How/where to check				
No.						
1	Check the item in the right column.	Are the scan settings (resolution) correctly specified for the application software used?				
2	Which direction of magnification is	Portrait (sub-scanning direction) is abnormal: Go to #3.				
	abnormal?	Landscape (main scanning direction) is abnormal: Go to #9.				
3	Check if the user-specific magnification adjust	tment is performed on the Software Operation Panel.				
	(Refer to Section 8.6.1.)					
4	Clean the Feed rollers and Pinch rollers, and	Refer to Section 8.3.				
	see if the error is resolved.					
5	Do any foreign obstacles that may block	Examine peripheral part of the Feed rollers.				
	feeding operation exist on the feeding path?					
6	Are tensions of the Feed Belt 1 and Feed	Feed belt 1: Refer to Sections 6.12.15, 6.13.13.				
	Belt 2 loose?	Feed belt 2: Refer to Section 6.12.16.				
7	Replace the Feed Motor, and see if the error	Refer to Section 6.12.10.				
	is resolved.					
8	Replace the HB Unit, and see if the error is	Refer to Section 6.12.18.				
	resolved.					
9	Is the Optical Unit installed correctly?	FX: Refer to Section 6.12.1.				
10	Replace the Optical Unit, and see if the	RV: Refer to Section 6.13.1.				
	error is resolved.					

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5.1.4.6 Vertical streaks appear in scanned image

Item No.	Check items	How/where to check
1	Check the item in the right column.	Interface cable connection
1 2	Check the item in the right column. Check if the scanning area and white reference area are dirty or have damages. The white reference area is included inside of the BW Unit, which is hermetically closed and cannot be disassembled to clean inside. The front side scanning area and the white reference area is separated into two, Revolve Unit and Fixed Unit. For <u>front side</u> , vertical streaks and cleaning position are <u>on the same side:</u> Vertical streaks on the left: Clean left Vertical streaks on the right: Clean right For <u>backside</u> , vertical streaks and cleaning position are <u>left-right</u> <u>reversal:</u> Vertical streaks on the left: Clean right Vertical streaks on the right: Clean left	Interface cable connection Revolve Unit Front side scanning area White reference for backside Fixed Unit Back side scanning area White reference for front side If the scanning section is damaged, replace the LED Glass RV and LED Glass FX. Fixed Unit: Section 6.12.5 Revolve Unit: Section 6.13.9 H glass surface on the BW Unit (white reference) is damaged, replace the BW Unit. The white reference is hermetically closed and cleaning inside is not possible. Fixed Line Section 6.12.2 Baudue Unit: Section 6.12.6
3	Check that the cables between the Optical	Unit and CT PCA are connected correctly and not damaged.
4	Check if there are any dirt or damages on the scanning area of the Optical Unit that generates vertical streaks. The Optical Unit is hermetically closed and cannot be disassembled to clean inside.	If the scanning area is dirty, clean the Optical Unit. (Refer to Section 6.3.1.) If there are damages on the scanning area or inside is dirty, replace the Optical Unit. Fixed Unit. Section 6.12.1 Revolve Unit: Section 6.13.1
5	Replace the CT PCA, and see if the error is resolved.	Keter to Section 6.10.1.

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5.1.4.7 White area of scanned image is not correct

Item	Check items	How/where to check							
1	Check the items listed in the right column.	©! Are the scan settings (density/colors) correctly							
		 E! The white reference area on the ADF scanning section is not dirty. 							
2	Perform White level adjustment in the Maintenance mode	Refer to Section 7.1.3.							

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5.1.5 Imprinter errors 5.1.5.1 No printing/Printed letters are not clear

Item No.	Check items	How/where to check				
1	Check if the message indicating that the remaining ink is not enough.	If the message appears, replace the print cartridge. (Refer to Section 9.8.1.1.)				
2	Turn ON/OFF the power several times and (Be sure that the scanner becomes "Ready"	perform printing. Does the same symptom occur? before turning it OFF.)				
3	Clean the nozzle of the Print cartridge and see if the error is resolved.	Refer to Section 9.8.32.1.				
4	Communication between the Print cartridge and Imprinter Control PCA may be faulty. Check the connection of the parts on the right and replace them if necessary.	Front-side imprinter: -Holder Unit (Front-side): Section 9.6.3.2 -Junction PCA: Section 9.6.3.3 Back-side imprinter: -Holder Unit (Backside): Section 9.6.3.6 -Junction PCA: Section 9.6.3.7				
5	Replace the Imprinter Control PCA and see if the error is resolved.	Refer to Section 9.6.3.1.				
6	Replace the scanner CT PCA and see if the error is resolved.	Refer to Section 6.10.1.				

5.1.5.2 Print form is dirty

5.1.5.2	Print form is dirty	
Item	Check items	How/where to check
No.		
1	Is the sheet guide of the Imprinter dirty	If dirty, clean it by referring to Sections 9.8.2.1 and 9.8.2.2.
	with ink?	
5.1.5.3	Printed letters are distorted	

5.1.5.3 Printed letters are distorted

Item	Check items	How/where to check
No.		
1	Check if the printing position is specified	Refer to Section 1.1.2.2 for the printable area.
	within the printable area?	Refer to Section 9.7.2 for the print setup.
		Check if the length of the documents loaded on the Hopper
		satisfies the specification.
2	Communication between the Print	Front-side imprinter:
	cartridge and Imprinter Control PCA may	-Holder Unit (Front-side): Section 9.6.3.2
	be faulty.	-Junction PCA: Section 9.6.3.3
	Check the connection of the parts on the	Back-side imprinter:
	right and replace them if necessary.	-Holder Unit (Backside): Section 9.6.3.6
		-Junction PCA: Section 9.6.3.7
3	Replace the Imprinter Control PCA and	Refer to Section 9.6.3.1
	see if the error is resolved.	

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5.1.6 Error Message

If an error occurs on the scanner, the error is displayed on the TWAIN driver and Error Recovery Guide as well as the error code on the Operator panel. Troubleshooting procedure for the displayed error messages and codes is described below.

5.1.6.1 TWAIN Driver/Error Recovery Guide

When an error occurs during scanning by TWAIN driver, the TWAIN driver and Error Recovery Guide display the following error messages, message codes and detail codes.

(The detail code such as temporary error code may not be displayed.)

If the message code and detail code appear, troubleshoot in the following procedure:

Ex) Fan error	
TWAIN driver	
TWAIN ドライパ	×
装置異常が検出されました。	通知ください。 (Code: DS42054)
DDES=0×EC <u>Error message</u> ! The contents of the error are described.	Message code Check the failure in the detail code list below.
Detail code Check the failure in the detail code list below.	
Error Recovery Guide	Error code
Fujitsu fi-Scanner Error Recovery Guide	Check the failure in the detail
スキャナ装置の異常が検出されました。 fi-6800dj ファン異常 読取枚数 エラー	code list below.

TWAIN driver error / Sense key / Detail code list

	Detail cod	e	Error message	TWAIN	Sense kev/	Error	
Sense Key	ASC	DDES	<detail></detail>	driver error	detail code	code	
		0x31	Paper jam <read-top jam="" sensor=""></read-top>	DS32002	038001-31	J1:31	
		0x32	Paper jam <paper feed="" jam="" sequence=""></paper>	DS32002	038001-32	J1:33	
		0x34	Paper jam <exit 1="" jam="" sensor=""></exit>	DS32002	038001-34	J1:34	
		0x35	Paper jam <exit 2="" jam="" sensor=""></exit>	DS32002	038001-35	J1:35	

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	Detail cod	le	Frror message	TWAIN driver	Sense kev/	Frror
Sense Key	ASC	DDES	<detail></detail>	error	detail code	code
		0x3A	Paper jam <feed-top 1="" jam="" sensor=""></feed-top>	DS32002	038001-3a	J1:3A
		0x3B	Paper jam <feed-top 2="" jam="" sensor=""></feed-top>	DS32002	038001-3b	J1:3B
		0x3C	Paper jam <read-top jam="" sensor=""></read-top>	DS32002	038001-3c	J1:3C
		0x3D	Paper jam <imp-top 1="" jam="" sensor=""></imp-top>	DS32002	038001-3d	J1:3D
	0x180	0x3E	Paper jam <imp-top 2="" jam="" sensor=""></imp-top>	DS32002	038001-3 e	J1:3E
		0x50	Paper jam <pick error=""></pick>	DS32002	038001-50	J1:50
		0x51	Paper jam <encoder 1="" jam=""></encoder>	DS32002	038001-51	J051
		0x52	Paper jam <encoder 2="" jam=""></encoder>	DS32002	038001-52	J0:52
		0x54	Skew detected <outside area="" jam="" of="" scanning=""></outside>	DS32002	038001-54	J3:54
	0280	0x40	ADF open <adf open=""></adf>	No error code	038002-40	U4:40
	0x280	0x41	Top cover open <top cover="" open=""></top>	No error code	038002-41	U4:41
	0780	0x55	Multifeed <overlap></overlap>		038007-55	J2:55
0x3	01/80	0x56	Multifeed <length></length>		038007-56	J2:56
		0x01	Sensor(s) dirty <dirty pick="" sensor=""></dirty>		038008-01	J8:01
		0x02	Sensor(s) dirty <dirty sensor="" skew=""></dirty>		038008-02	J8:02
		0x03	Sensor(s) dirty <dirty feed-top="" sensor=""></dirty>		038008-03	J8:03
		0x04	Sensor(s) dirty <dirty read-top="" sensor=""></dirty>	•	038008-04	J8:04
	0x880	0x05	Sensor(s) dirty <dirty postimp-top="" sensor=""></dirty>		038008-05	J8:05
		0x06	Sensor(s) dirty <dirty exit="" sensor<="" td=""><td></td><td>038008-06</td><td>J8:06</td></dirty>		038008-06	J8:06
		0x07	Sensor(s) dirty <dirty jam="" sensor=""></dirty>		038008-07	J8:07
		0x61	Pick Roller error	DS32022	038008-61	J9:61
		0x64	Brake roller/separator roller(s) worn		038008-64	J9:64
-	1x080	0xB4	Print cartridge not installed (back-side imprinter)		038010-b4	U6:B4
	12000	0xBA	Print cartridge not installed (back-side imprinter)		038010-ba	U6:BA



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	Detail cod	e	Error message	TWAIN driver	Sense kev/	Error
Sense Key	ASC	DDES	<detail></detail>	error	detail code	code
		0xB2	Imprinter <ram></ram>		048010-b2	A0:B2
		0xB3	Imprinter error <communication timeout=""></communication>		048010-b3	A1:B3
	0190	0xB5	Imprinter error <back-side head="" print=""></back-side>		048010-b5	A2:B5
	0X180	0xBB	Imprinter error <front-side head="" print=""></front-side>		048010-bb	A2:BB
		0xB6	Imprinter error <eeprom></eeprom>		048010-b6	A3:B6
		0xB8	Imprinter error <rom></rom>		048010-b8	A4:B8
	0280	0x84	Lamp circuit error <lamp (f)="" alarm="" fuse=""></lamp>		048003-84	H7:84
	0x380	0x85	Lamp circuit error <lamp (b)="" alarm="" fuse=""></lamp>		048003-85	H7:85
		0x80	Motor circuit error <feed 1="" alarm="" motor=""></feed>		048004-80	H1:80
		0x8A	Motor circuit error <feed 2="" alarm="" motor=""></feed>		048004-8a	H1:8A
		0x8B	Motor circuit error <exit alarm="" motor=""></exit>		048004-8b	H1:8B
		0x81	Motor circuit error <separator alarm="" motor=""></separator>		048004-81	H2:81
		0x82	Motor circuit error <pick alarm=""></pick>		048004-82	H2:82
	0x480	0x8F	Motor circuit error <hysteresis alarm="" motor=""></hysteresis>	\sim	048004-8f	H2:8F
		0x90	Motor circuit error <solenoid alarm=""></solenoid>		048004-90	H2:90
0x4		0x8C	Motor circuit error <hopper alarm="" motor=""></hopper>		048004-8c	H3:8C
		0x8B	Motor circuit error <stacker alarm="" motor=""></stacker>		048004-8d	H4:8D
		0x86	Motor circuit error <md alarm=""></md>		048004-86	H5:86
		0x88	Motor circuit error <background alarm<="" front="" motor="" td=""><td></td><td>048004-88</td><td>H8:88</td></background>		048004-88	H8:88
		0x89	Motor circuit error <background alarm="" back="" motor=""></background>		048004-89	H8:89
		0x91	CCD 24V error < Optical alarm> < Front/Back>		048004-91	H9:91
		0xC0	Hopper malfunction	DS42051	048005-c0	F0:C0
	0590	0xC1	Stacker malfunction		048005-c1	F1:C1
	0x380	0xC2	Background switching mechanism error (F)		048005-c2	F4:C2
		0xC3	Background switching mechanism error (B)	DS42046	048005-c3	F4:C3
	0x690	0x74	Optical error <adf front=""></adf>		048006-74	E2:74
	02080	0x75	Optical error <adf back=""></adf>		048006-75	E3:75
	0x780	0xEC	Fan error	DS42054	048007-ec	F6:EC
	4	$\langle \cdot \rangle$				

TWAIN driver error / Sense key / Detail code list (Cont'd)

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	Detail cod	e	Error message	TWAIN driver	Sense kev/	Error
Sense Key	ASC	DDES	<detail></detail>	error	detail code	code
	1x180	0xB1	Imprinter error < Imprinter system error>		048011-b1	H6:B1
		0x11	Sensor error <pick error="" sensor=""></pick>		044400-11	L0:11
		0x12	Sensor error <feed-top error="" sensor=""></feed-top>		044400-12	L1:12
		0x13	Sensor error <read-top error="" sensor=""></read-top>		044400-13	L2:13
		0x14	Sensor error <exit error="" sensor=""></exit>		044400-14	L3:14
		0x15	Sensor error <imp-top error="" sensor=""></imp-top>		044400-15	L4:15
		0x17	Sensor error <skew error="" sensor=""></skew>		044400-17	L5:17
		0x1B	Sensor error <us error="" sensor=""></us>	No error code	044400-1b	L6:1B
		0x1C	Sensor error <jam error="" sensor=""></jam>		044400-1c	L7:1C
		0xD2	EEPROM error		044400-d2	E7:D2
0.4	4x044	0xD3	Operator Panel error		044400-d3	E6:D3
0x4		0xE8	SCSI error		044400-e8	E8:8E
		0xF5	Image memory read-write error (F)		044400-f5	E9:F5
		0xF6	Image memory read-write error (B)		044400-f6	E9:F6
		0xF7	Image memory read-write error (EXT-F)		044400-f7	E9:F7
		0xF8	Image memory read-write error (EXT-B)		044400-f8	E9:F8
		0xE5	Memory error (F)		044400-e5	C0:E5
		0xE6	Memory error (B)		044400-e6	C0:E6
		0xE9	LSI error (F)		044400-е9	C0:E6
		0xEA	LSI error (B)		044400-ea	C0:EA
		0xF0	Internal communication error of the scanner		044400-f0	C8:F0
			SPC error		N/A	C6:EF
			USB error		N/A	C6:F9

TWAIN driver error / Sense key / Detail code list (Cont'd)



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Chapter 6 Maintenance Procedure

This chapter describes how to replace maintenance parts, and clean the scanner to ensure normal operations. When assembling the maintenance parts, conduct necessary cleaning when instructed in this manual.

6.1 For Safety Operation!

Read this page carefully before disassembling or assembling.

Electric shock

Turn the power switch off, and unplug the AC power source from the outlet before disassembling or assembling. Otherwise, an electric shock may occur.

Injury

Be careful not to get your fingers, hair, clothes or accessories caught in a moving part. It may cause injury.

Machine damage

Static Electricity may cause the damage to the scanner. When repairing the scanner, wear a wrist strap or dielectric mat to avoid ESD.

Notes when cleaning

When cleaning the scanner, be careful not to allow foreign matter, such as dried ink and toner, to fall inside the scanner.

- You may accidentally drop screws or springs into the scanner. To avoid this, covering the scanner with paper or cloth before disassembling/assembling is recommended.
- Be careful to avoid the parts from dropping into the paper path lower-side while you are replacing the parts in the Revolve Unit (inside of ADF).
- Be careful not to damage the glasses.
- Wipe any dirt and fingerprints on the entire of the paper path (stainless parts, glass parts and sensor parts). (Refer to Section 8.3.)
- Refer to Appendix 1 for the screw names used in this manual.

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6.2 Periodic Maintenance

Periodic maintenance should be performed on the scanner at the following intervals.

Item	Maintenance cycle
Periodic maintenance	Every 12 months

During a service call, clean the scanner if dirty. (Refer to Sections 8.3.)

6.2.1 Periodic Maintenance Items

No.	Item			Remarks
		Check the scanner status	Check the scanned image status.	
1	Inquiry to the upon	Content Second Sec		
1	inquiry to the user	🕑 Status of use		
		Errors		
		Clean the scanner	Clean the scanner by referring to Section	
		Body	8.3 "Cleaning".	
		EPort, Fan		
		(E)Rollers		
		[©] Feeding section		
		Censors		
2	Charle	Check the operation	Check each operation by referring to	
2	Спеск	(Maintenance Mode)	Chapter 7 "Adjustment/Settings".	
		Deper Feeding Test	EMotor/Fan operation and sounds are	
		(E)Motor Test	normal	
		🕑 Sensor Test	©The sensors, Operator Panel, lamps and	
		Coperator Panel Test	thermistor temperature are normal.	
		©Lamp Test		
		(E)Thermistor Test		
		Confirm the scanner status	Check the scanner status by referring to	
		(Maintenance Mode)	Chapter 7 "Adjustment/Settings".	
		Error log display	Configure the maintenance date by	
4	Confirmation	Clearing Periodical	referring to "Clearing Periodical	
		Maintenance Alarm	Maintenance Alarm".	
		© Displaying/Clearing Page		
		counter		
5				
6				
7				

Check the parts to be cleaned at periodical maintenance. Clean them if necessary. (Refer to Section 8.3.)

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6.3 Cleaning

6.3.1 Optical Unit

Wipe the glass surface with a dry lint-free cloth. Be sure to wipe from one end to the other in one direction. Do not use alcohol but rub with a dry cloth. If stains are not eliminated yet, apply alcohol on a cloth, and wipe off in one direction. After using alcohol, be sure to wipe off with a dry cloth.

* Clean the glass surface only as the Optical Unit is hermetically closed.





6.3.2 BW Unit / LED Unit / LED Glass (Fixed Unit / Revolve Unit)

Wipe the glass surface and with a dry lint-free cloth. Be sure to wipe from one end to the other in one direction. Do not use alcohol but rub with a dry cloth. If stains are not eliminated yet, apply alcohol on a cloth, and wipe off in one direction. After using alcohol, be sure to wipe off with a dry cloth.

* Clean the glass only as the BW Unit and LED Unit are hermetically closed.



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6.4 Maintenance Tools

6.4.1 Maintenance Tool List

Special tools to maintain this scanner are shown in the table below.

No.	Tools	Remarks	Purpose
1	Phillips screwdriver	For M3, M4 screws	
2	Small Phillips screwdriver	For M2, M2.5 screws	Removing Micro Switch
3	Small flat-blade screwdriver		Removing sensors and connectors
4	Longnose plier		Installing E-ring
5	Hex wrench	For M3 screws	Removing hexagonal nut in Pick Roller
6	Alcohol	Ethyl alcohol	Cleaning
7	Blower brush		Cleaning mirrors
8	Cloth	Bleached or nonwoven cloth	Cleaning

6.4.2 Test Chart List

Special charts to maintain this scanner are shown in the table below.

No.	Chart Name (Part Number)	Quantity	Remarks	Purpose
1	ADJ-CHART-KIT (PA03575-D990)	1	Includes the following charts: #2: ADJUST-CHART #3: TEST CHART (W) #4: ADJUSTMENT SHEET	
2	ADJUST-CHART (PA93008-Y497)	1	Adjustment is required after the following parts replacement: - BW Unit (Section 6.12.2) - BW Unit (Section 6.12.3) - Optical Unit (Section 6.12.1) - Optical Unit (Section 6.13.1)	Offset / Magnification adjustment
3	TEST CHART (W) (PA03277-Y123)	S North	Adjustment is required after the following parts replacement: - BW Unit (Section 6.12.2) - BW Unit (Section 6.12.3) - LED Unit FX (Section 6.12.3) - LED Unit RV (Section 6.13.3) - Optical Unit (Section 6.12.1) - Optical Unit (Section 6.13.1)	White level adjustment
4	ADJUSTMENT SHEET (PA03296-Y990)	1	Adjustment is required after the following parts replacement: - US Sensor FX (Section 6.14.1) - US Sensor RV (Section 6.14.2)	Ultrasonic sensor adjustment
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Section 6.5

6.5 Non-disassembly Parts

6.5.1 Non-disassembly Parts (Optical Unit)

Besides the non-disassembly screws, do NOT disassemble any parts on this unit (printed board / mirrors). * If you disassembled any non-disassembly parts by mistake, replace the Optical Unit with the new one.



Optical Unit

6.5.2 Non-disassembly Parts (Motor Units which are already adjusted)

The following motors do not require belt tension adjustment as their motor bracket positions are fixed. Do NOT loosen the non-disassembly screws in the photos below:

* If you disassembled the non-disassembly parts by mistake, replace each motor with the new one.



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6.5.3 Non-disassembly Parts (Brake Roller which is already adjusted)

The following Brake roller installation part cannot be adjusted because the pressure has been adjusted for the Brake roller. If any non-disassembly screws were loosened or tightened, or the Brake Roller spring was replaced, re-adjust the Brake Roller by referring to the adjustment procedure below.



Brake Roller Pressure Adjustment Procedure

- Open the ADF, remove two screws A (circled) securing the FIX Guide 1 to remove the FIX Guide 1. (Refer to steps (2) and (3) in Section 6.12.8.)
- (2) Remove the Brake Roller Cover.



- (3) Remove a screw A (circled) securing the B-BRK Unit to remove the B-BRK Unit.
- (4) Loosen the screw [1] 1.5 turns

* Loosening more or less than specified turns may cause adjustment error.

(5) Tighten the screw [2] with the torque driver of 1.0kgf.cm.



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(6) Install the Brake Roller Pressure adjustment jig.



(7) Tighten the screw [2] to adjust the brake pressure.
 Lower the surface B at the shaft protrusion, and align it with the surface A of the frame. (Difference between the surfaces A and B is 0 to 0.2mm.)

The Brake Roller Pressure Adjustment Jig and the C part of the Brake Unit must be touched.



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(8) Tighten the screw [1] with the torque of 5kgf.cm.



- (9) Loosen the screw [2] slightly.
- (10) Check the Brake Roller pressure.

© Lift up the Brake Roller pressure adjustment jig once, and check that the difference between the surfaces A and B is within the adjustment range of 0~0.2mm.



(11) The adjustment is complete if the adjustment value is within the specified range (0~0.2mm).
(c) Install the B-BRK Unit, Brake Roller, and FIX Guide 1.
(c) If the result is NG, re-adjust the pressure from step (4).

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6.6 Removing the Power Cable, USB/SCSI Cable

<Removal>



Before turning up the scanner with its back to the bottom, be sure to unplug the power cable and USB/SCSI cable. Otherwise, the connectors and the CT PCA may be damaged.



<Installation>

Follow the above procedure in reverse.

NOTICE

There are two locations for the USB/SCSI cable connectors, one of which is at the scanner side and the other at the CGA Board side.

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6.7 Replacing the Hopper Unit / Stacker Unit

6.7.1 Hopper Unit

Refer to Section 4.2.1 for the part number and appearance of the Hopper Unit.

<Removal>

Raising the front edge of the Hopper Unit slightly, pull it out of the scanner while the Hopper Unit is slanting.



<Installation>

Align the rotating shaft of the Hopper with the right and left frame guides, insert the shaft to install.



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6.7.2 Stacker Unit <<TBD>>

Refer to Section 4.2.2 for the part number and appearance of the Stacker Unit.

<Removal>

- (1) Open the Top Cover. (Refer to Section 8.1.4.)
- (2) Lift up the Paper path lower unit inside of the Top Cover.



(3) Open the Stacker Unit, remove three screws D (circled) securing the Stacker Under Sheet and then remove the Stacker Under Sheet.



(4) Lift up the Stacker Unit to remove.



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<Installation>

(1) Insert the stacker guides to the Stacker Unit grooves (left and right) and pull down the Stacker Unit.



- (2) Tighten the three tapping screws (circled) to install the Stacker Under Sheet.
- (3) Lower the paper path unit, and then close the Top Cover.

6.7.3 Stacker Under Sheet

Refer to Section 4.2.3 for the part number and appearance of the Stacker Under Sheet.

<Removal>

Open the Stacker unit and remove six screws D (circled) securing the Stacker Under Sheet, and then remove the Stacker Under Sheet.



<Installation>

Follow the above procedure in reverse.

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6.7.4 Stacker Stopper S

NOTICE

Refer to Section 4.2.4 for the part number and appearance of the Stacker Stopper S.

<Removal>

Raise the Stacker Stopper S, and grab its lower part to remove.



<Installation>

Follow the above procedure in reverse.

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Section 6.8.1

6.8 Replacing the Outer Covers

6.8.1 FX Cover L

Refer to Section 4.2.6 for the part number and appearance of the FX Cover L.

<Removal>

(1) Remove the Hopper Unit. (Refer to Section 6.7.1.)

(2) Remove five screws A (circled) and one screw E (enclosed with square) securing the FX Cover L.



(3) Close the ADF, open the Top Cover, and then unlatch a latch (circled).



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(4) Open the ADF, unlatch a latch (circled), and then open the rear of the FX Cover L to remove it to the front side of the scanner.



<Installation>

(1) Install the FX Cover L from the front side of the scanner, latch with latches to the scanner frame, and fix with the five screws A and one screw E.



<Removal>

(1) Remove the Hopper Unit. (Refer to Section 6.7.1.)

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(2) Remove five screws A (circled) and one screw E (enclosed with square).



(3) Close the ADF, open the Top Cover, and then unlatch a latch (circled).



(4) Open the ADF, unlatch a latch (circled), and then open the rear of the FX Cover R to remove it to the front side of the scanner.



<Installation>

Install the FX Cover **R** from the front side of the scanner, latch with latches to the scanner frame, and fix with the five screws A and the screw E.

Use the screw E (longer) at the rear bottom of the FX Cover L.



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6.8.3 RV Cover L

Refer to Section 4.2.8 for the part number and appearance of the RV Cover L.

<Removal>

- (1) Open the Top Cover. (Refer to Section 8.1.4.)
- (2) Remove a screw A (circled) securing the RV Cover L.



- (3) Open the ADF. (Refer to Section 8.1.3.)
- (4) Remove a screw (circled) securing the RV Cover L, and then remove the RV Cover L.



Follow the above procedure in reverse.

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6.8.4 RV Cover R



Refer to Section 4.2.9 for the part number and appearance of the RV Cover R.

<Removal>

- (1) Remove the Operator Panel. (Refer to removal steps $(1) \sim (2)$ in Section 6.9.1.)
- (2) Open the Top Cover. (Refer to Section 8.1.4.)
- (3) Remove two screws A (circled) securing the RV Cover R.



- (4) Open the ADF. (Refer to Section 8.1.3.)
- (5) Remove a screw A (circled) securing the RV Cover R, and then remove the RV Cover R.



(6) Remove a tapping screw (circled) securing the SW PCA, and then remove the SW PCA and FG Plate from the RV Cover R.





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<Installation>

Follow the above procedure in reverse.

Bump the FG Plate against the SW PCA when installing the SW PCA.



Let the SW cable into the two slits when installing the SW PCA.



Install the RV Cover R by being careful of the nylon band position for the SW Cable.





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6.8.5 SW PCA

Refer to Section 4.2.12 for the part number and appearance of the SW PCA. <Removal>

- (1) Remove the SW PCA. (Refer to removal steps $(1) \sim (4)$ in Section 6.8.4.
- (2) Disconnect a connector, and a screw A (circled), and then remove the POW Key Top.
- (3) Remove a screw D (circled), and then remove the SW PCA.



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6.8.6 Stacker Under Cover

Refer to Section 4.2.10 for the part number and appearance of the Stacker Under Cover.

<Removal>

- (1) Remove the following parts.
 ② Stacker Unit (Refer to Section 6.7.2.)
 ③ RV Cover R. (Refer to Section 6.8.4.)
- (2) Unlatch three tapping screws (circled) securing the STK-UNCOVER-FX, and then remove the STK-UNCOVER-FX.



(3) Unlatch four latches (circled) to remove the Stacker Under Cover.



<Installation>

Follow the above procedure in reverse.

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									Drawing No.	P1PA03575	5≁ E	80XX/6
Rev.	DATE	DESIG.	. CHECK	APPR.	DESCRIPTIO	ON			DE		Dogo	122 /
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6.8.7 Top Cover

Refer to Section 4.2.11 for the part number and appearance of the Top Cover.

<Removal>

- (1) Open the Top Cover. (Refer to Section 8.1.4.)
- (2) Remove two screws A (circled) securing the Top Cover.



(2) Fix the Top Cover with the two screws.

									Name	fi-6800/fi-668P Maintenan	RF/f ce N	i-680PRB Ianual
									Drawing No.	P1PA03575	5≁ E	80XX/6
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DES	SIG. April 2	0,2009	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	ГГ		гауе	/383

Top Cover

6.9 Replacing the Parts on the Operator Panel

6.9.1 CSL PCA

- Refer to Section 4.2.13 for the part number and appearance of the CSL PCA.

- The CSL PCA includes EEPROM. Back up the EEPROM data to the CT PCA temporarily before replacing the CSL PCA. (Refer to Section 7.1.9.)

<Removal>

- (1) Open the Stacker Unit, and push up the Operator Panel to remove.
- (2) Disconnect two connectors (enclosed with square) from the rear of the Operator Panel.



(3) Pull up the cable lock securing the FPC Cable on the LCD to disconnect the FPC Cable.

Be sure to pull up the lock before disconnecting the FPC Cable. Otherwise, the FPC Cable may be damaged.



(4) Disconnect a connector (enclosed with square) on the LCD.



									Name	fi-6800/fi-668P Maintenar	RF/f ice N	i-680PRB Ianual
									Drawing No.	P1PA03575	5≁ E	80XX/6
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- (5) Remove three tapping screws securing the CSL Plate to remove the CSL Plate.
- (6) Remove a tapping screw securing the CSL PCA, and then remove the CSL PCA from the Operator Panel.



<Installation>

Follow the above procedure in reverse.

- Be sure to insert the FPC Cable all the way into the connector, (Refer to installation procedure in Section 6.9.2.)
- After replacing the CSL PCA, be sure to restore the EEPROM data from the CT PCA to the CSL PCA. (Refer to Section 7.1.9.)

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									Drawing No.	P1PA03575	5≁ E	BOXX/6
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DE	SIG. April 2	0,2009	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	ГГ		гауе	/383

6.9.2 LCD



Refer to Section 4.2.14 for the part number and appearance of the LCD. <Removal>

- (1) Remove the Operator Panel by referring to steps $(1) \sim (2)$ in Section 6.9.1.
- (2) Pull up the cable lock securing the FPC Cable on the LCD to disconnect the FPC Cable.

NOTICE

Be sure to pull up the lock before disconnecting the FPC Cable. Otherwise, the FPC Cable may be damaged.



- (2) Connect the connector (enclosed with square) on the LCD.
- (3) Insert the FPC cable on the LCD horizontally all the way into the connector, and then push the cable locks (red-circled) at a time to lock the FPC Cable.

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									Drawing No.	P1PA03575	5≁ E	80XX/6
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Check that the FPC Cable is aligned when pushing the cable lock.



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									Drawing No.	P1PA03575	i≁ B	30XX/6
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DES	SIG. Apri	20,2009	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	ГГ		гауе	/383

6.10 Replacing the Parts on the CT PCA Unit

6.10.1 CT PCA

Refer to Section 4.2.52 for the part number and appearance of the CT PCA. <Removal>

- (1) Remove the Hopper Unit. (Refer to Section 6.7.1.)
- (2) Remove three screws A (circled) securing the CT Base.



NOTICE

Unplug the power cable and USB/SCSI cable before setting up the scanner (rear side on the bottom). (Refer to Section 6.6.)

(3) Make sure that the ADF is completely closed, and then set up the scanner by holding the bottom of the scanner at right and left sides (the rear side comes to bottom).

- If the ADF is not closed completely, it may be open and damaged when the scanner is set up.
- When setting up the scanner (rear comes to bottom), check that the place has enough space and the scanner does not overturn.



(4) Holding the CT Base, remove four screws A (circled) securing the CT Base, and tilt the CT Base slowly by paying attention to the cables.



										Name	fi-6800/fi-668P Maintenan	RF/f ce N	i-680PRB Ianual
										Drawing No.	P1PA03575	5≁ E	80XX/6
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Section 6.10.1

(5) Remove six screws A (circled) securing the CT Shield 2 to remove the CT Shield 2.



(6) Disconnect four screws A (circled), and remove all cables from ten white clamps. And then disconnect 15 connectors connected to the CT PCA. (Refer to installation procedure for the connector positions.)



(7) Remove four screws A securing the CT Shield 1 to remove the CT Shield 1.



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- (8) Remove two Memories. (Refer to Section 6.10.3.)
- (9) Remove four screws securing the TPS Plate to remove the TPS Plate.



(10) Unlatch one latch (enclosed with square) and remove the USB Protector. Remove one screw H and two screws I.



(11) Remove eight screws A securing the CT PCA, and then remove the CT PCA from the CT Base.



									Name	fi-6800/fi-668P Maintenan	RF/f ce N	i-680PRB Ianual
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<Installation>

Follow the above procedure in reverse.



- Refer to Installation procedure in Section 6.10.2 for where to install the Memories.
- Check the connector positions and cable clamp positions at installation.



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										Drawing No.	P1PA03575	5≁ E	BOXX/6
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Check the cable route while installing the CT PCA.

(1) CT-RV Cable





Check that the cables are wrapped with the core so that they do not touch the Feed Motor Unit 2.



When closing the CT Base, check that the CCD-B Cable touches the rising edge of the plate and does not touch the Feed Motor Unit 2.

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									Drawing No.	P1PA03575	5≁ E	30XX/6
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DES	SIG. April	20, 2009	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	ГГ		гауе	/383

6.10.2 Memory (CT PCA)



Refer to Section 4.2.53 for the part number and appearance of the Memory (DIMM).

<Removal>

- (1) Remove the Hopper Unit. (Refer to Section 6.7.1.)
- (2) Recline the CT Base, and remove the CT Shield 2 and CT Shield 1. (Refer to steps $(2) \sim (7)$ in Section 6.10.1.)
- (3) Open two tabs (circled) at right and left sides of the Memories on the CT Board, and remove the Memories.



<Installation>

Follow the above procedure in reverse.

NOTICE

- Check the Memory slot positions (DIMM-F1, DIMM-B1, enclosed with square) before installing the Memories. (Do NOT install them onto DIMM-F2 and DIMM-B2.)
- Place the Memories aligning with the cutouts, tilt them downward, and make sure that the tabs at right and left sides are securely latched.

DINN-F1 DINN-F2	DINH-B1 DINH-B2	
. and a subsequent of the other subsequences of the subsequences o	Cutout	

									Name	fi-6800/fi-668P Maintenan	RF/f ice N	i-680PRB Ianual
									Drawing No.	P1PA03575	5≁ E	30XX/6
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DES	SIG. Apri	20,2009	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	ГГ		гауе	/383

6.10.3 CGA Board / Memory

Refer to Section 4.2.54 for the part number and appearance of the CGA Board and Section 4.2.55 for the Memory (DIMM). CGA Board includes the Memory (DIMM).

<Removal>

(1) Remove two screws A (circled) securing the CGA Board to remove the CGA Board.



(2) Open two tabs (circled) at right and left sides on the CGA Board to remove the Memory



<Installation> Follow the above procedure in reverse.

Place the Memory aligning with the cutouts, tilt them downward, and make sure that the tabs at right and left sides are securely latched.



									Name	fi-6800/fi-668P Maintenan	RF/f	i-680PRB Ianual
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6.10.4 HB Pad

Refer to Section 4.2.24 for the part number and appearance of the HB Pad.

<Removal>

- (1) Remove the Hopper Unit. (Refer to Section 6.7.1.)
- (2) Recline the CT Base. (Refer to steps $(2) \sim (4)$ in Section 6.10.1.)



									Name	fi-6800/fi-668P Maintenan	RF/f ce N	i-680PRB Ianual
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6.10.5 CCD Cable RV

Refer to Section 4.2.68 for the part number and appearance of the CCD Cable RV.

<Removal>

- (1) Remove the Stacker Unit. (Refer to Section 6.7.2.)
- (2) Remove the Optical Cover. (Refer to steps $(2) \sim (4)$ in Section 6.13.1.)



(3) Remove the FX Cover L (Section 6.8.1), RV Cover L (Section 6.8.3) and RV Side Cover L (step (2) in Section 6.13.6).
(4) Remove two screws on the clamps securing the CCD Cable RV.



- (5) Remove the CT Base. (Refer to steps $(1) \sim (6)$ in Section 6.10.1.)
- (6) Remove two screws A, and remove the CCD Cable RV.



<Installation>

Follow the above procedure in reverse.

										Name	fi-6800/fi-668P Maintenan	RF/f ice N	i-680PRB Ianual
										Drawing No.	P1PA03575	5≁ E	80XX/6
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6.10.6 CSL Cable

Refer to Section 4.2.69 for the part number and appearance of the CSL Cable.

<Removal>

- (1) Remove the FX Cover R (Section 6.8.2), RV Cover L (Section 6.8.4) and RV Side Cover R (step (3) in Section 6.13.6).
- (2) Remove two screws on the clamps securing the CSL Cable.



(3) Remove the CT Base. (Refer to steps (1) \sim (6) in Section 6.10.1.)

(4) Remove the clamps and then the CSL Cable.



<Installation>

Follow the above procedure in reverse.

									Name	fi-6800/fi-668P Maintenan	RF/f ce N	i-680PRB Ianual
									Drawing No.	P1PA03575	5≁ E	B0XX/6
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6.11 Replacing the Parts in the Power Supply

6.11.1 Power Supply

Refer to Section 4.2.58 for the part number and appearance of the Power Supply.

<Removal>

(1) Remove nine screws A (circled) securing the Power Supply, open the Power Supply part, disconnect the Fan cable connector and remove two clamps (enclosed with square) for the CT-POW Cable.



The FAN cable and CT-POW cable are short because the surpluses of them are clamped. Be careful when opening and closing the Power Supply part.



(2) Disconnect a connector (enclosed with square) for CT-POW Cable and remove ten screws A (circled) securing the Power Supply to remove the Power Supply.



										Name	fi-6800/fi-668P Maintenar	RF/f	i-680PRB Ianual
										Drawing No.	P1PA03575	5≁ B	30XX/6
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<Installation>

Follow the above procedure in reverse.



When installing the Power Supply part, set the hooks at right and left sides in the frame on the scanner first, and connect the CT-POW Cable connector.



Hook the CT-POW Cable onto two clamps (enclosed with square), and then install the Fan Cable connector.



									Name	fi-6800/fi-668P Maintenar	RF/f	i-680PRB Ianual
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6.11.2 Fan

Refer to Section 4.2.59 for the part number and appearance of the Fan.

<Removal>

- (1) Remove the Power Supply part. (Refer to step (1) in Section 6.11.1.)
- (2) Remove two push rivets (circled) securing the Fan from back of the Power Supply part to remove the Fan.



<Installation>

Follow the above procedure in reverse.

- Check the cable route and direction of the wind (emitting direction) when installing the Fan.



- Refer to Section 6.11.1 "Power Supply installation procedure" for how to install the Fan connector.

									Name	fi-6800/fi-668P Maintenan	RF/f ice N	i-680PRB Ianual
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6.12 Replacing the Parts in the Fixed Unit

6.12.1 Optical Unit

Refer to Section 4.2.15 for the part number and appearance of the Optical Unit. <Removal>

- (1) Remove the Hopper Unit. (Refer to Section 6.7.1.)
- (2) Recline the CT Base. (Refer to steps $(2) \sim (4)$ in Section 6.10.1.)
- (3) Disconnect a connector (enclosed with square), and then remove a screw A (circled) securing the Optical Hold Plate to remove the Optical Hold Plate.



(4) Pull out the Optical Unit slightly, disconnect a connector (enclosed with square), and then remove the Optical Unit.



(5) Remove two screws D, and then remove the CDD-FG-SPRING from the Optical Unit.

Do NOT disassemble the Optical Unit including the screws excluding the part necessary to remove.



<Installation>

Follow the above procedure in reverse.

NOTICE

When holding the Optical Unit, do not touch the CCD board (metal frame) or mirror (glass) but the black frame.
After replacing the Optical Unit, perform Offset adjustment and White level adjustment. (Refer to Chapter 7.)

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									Drawing No.	P1PA03575	5≁ B	80XX/6
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6.12.2 BW Unit

Refer to Section 4.2.20 for the part number and appearance of the BW Unit.

<Removal>

- (1) Open the ADF. (Refer to Section 8.1.3.)
- (2) Remove two screws A (circled) securing the BW Unit to remove the BW Unit.



- After replacing the BW Unit, perform Offset adjustment and White level adjustment. (Refer to Chapter 7.3.)

								Name	fi-6800/fi-668P Maintenan	RF/f	i-680PRB Ianual
								Drawing No.	P1PA03575	5≁ B	80XX/6
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6.12.3 BW Motor Unit



Refer to Section 4.2.21 for the part number and appearance of the BW Motor Unit. <Removal>

- (1) Remove the following parts.
 - Hopper Unit (Refer to Section 6.7.1.)
 - FX Cover R (Refer to Section 6.8.2.)
- (2) Recline the CT Base (Refer to removal steps $(2) \sim (4)$ in Section 6.10.1.).
- (3) Unhook the BW Motor Unit cable from the clamps inside of the Fixed Unit, and then disconnect a connector (enclosed with square).



(4) Remove two tapping screws (circled) securing the BW Motor Unit to remove the BW Motor Unit, and disconnect a connector (enclosed with square) at the sensor side from the BW Motor Unit.



<Installation>

Follow the above procedure in reverse.

When installing the BW Motor Unit, hook the drive gear onto the BW Unit arm.



									Name	fi-6800/fi-668P Maintenan	RF/f ce N	i-680PRB Ianual
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6.12.4 Front Side Background Changeover Sensor (Sensor)

Refer to Section 4.2.45 for the part number and appearance of the front side background changeover sensor.

<Removal>

- (1) Remove the following parts.
 - Hopper Unit (Refer to Section 6.7.1.)
 - FX Cover R (Refer to Section 6.8.2.)
- (2) Recline the CT Base. (Refer to removal steps $(2) \sim (4)$ in Section 6.10.1.)
- (3) Remove the BW Motor Unit (Refer to Section 6.12.3.)
- (4) Unlatch the tabs on the Sensor, and then remove the Sensor from the BW Motor Unit.



Refer to Section 4.2.16 for the part number and appearance of the LED Glass FX.

<Removal>

- (1) Open the ADF. (Refer to Section 8.1.3.)
- (2) Loosen a thumb screw (circled) securing the LED Glass FX to remove the LED Glass FX.



<Installation>

Follow the above procedure in reverse.

When holding the LED Glass FX, do not touch the mirror (glass) but the black frame.

										Name	fi-6800/fi-668P Maintenan	RF/f	i-680PRB Ianual
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6.12.6 LED Unit FX

Refer to Section 4.2.18 for the part number and appearance of the LED Unit FX.

- <Removal>
 - (1) Remove the following parts.
 - Hopper Unit (Refer to Section 6.7.1.)FX Cover R. (Refer to Section 6.8.2.)
 - (2) Remove the rubber cover and disconnect a connector (enclosed with square) from right side of the scanner, and then remove the cable from the frame.



- (3) Remove the LED Glass FX. (Refer to Section 6.12.5.)
- (4) Remove two screws A (circled) securing the LED Unit FX to remove the LED Unit FX



<Installation>

Follow the above procedure in reverse.

NOTICE

- When holding the LED Unit FX, do not touch the mirror (glass) but the black frame.
- Route the cables for the LED Unit FX as shown below.



After replacing the LED Unit FX, perform White level adjustment. (Refer to Chapter 7.)

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6.12.7 ADF Open Switch (Micro Switch)



Refer to Section 4.2.49 for the part number and appearance of the Micro Switch.

<Removal>

- (1) Remove the following parts.
- Hopper Unit (Refer to Section 6.7.1.)
- FX Cover R. (Refer to Section 6.8.2.)
- (2) Remove two screws F securing the Micro Switch from inner side of the scanner.



<Installation>

Follow the above procedure in reverse.



Install the connectors on the Micro Switch as shown in the photo below.



								Name	fi-6800/fi-668P Maintenan	RF/f ce N	i-680PRB Ianual
								Drawing No.	P1PA03575	i≁ E	30XX/6
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6.12.8 Assist Roller

Refer to Section 4.2.70 for the part number and appearance of the Assist Roller.

<Removal>

- (1) Open the ADF. (Refer to Section 8.1.3.)
- (2) Remove two screws A (circled) securing the FIX Guide 1 to remove the FIX Guide 1.



(3) Raise the bearings at right and left of the Assist Roller to remove the Assist Rolle



<Installation>

Follow the above procedure in reverse.

Place the shaft at left side of the scanner into the groove of the joint before installing the Assist Roller.



Adjustment - [TBD]

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6.12.9 Feed Rollers (Fixed Unit) 6.12.9.1 Feed Roller 2

NOTICE

Refer to Sections 4.2.71 for the part number and appearance of the Feed Roller 2.

<Removal>

- (1) Remove the following parts.
 - Hopper Unit (Refer to Section 6.7.1.)
 - FX Cover L. (Refer to Section 6.8.1.)
 - FX Cover R. (Refer to Section 6.8.2.)
 - FIX Guide 1 (Refer to step (2) in Section 6.12.8.)
 - Feed Belt 2 (Refer to Section 6.12.13.)
- (2) Remove two screws A (circled) securing the FIX Guide 2 to remove the FIX Guide 2.



(3) Remove a screw securing the Plate from left side of the scanner to remove the Plate.



(4) Pull out Move the Feed Roller 2 in the direction of the arrow to remove.



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<Installation>

(1) Follow the above procedure in reverse.



Make sure that the Feed Roller 2 is securely placed on the frame at right side of the scanner.



- NOTICE

- int necessar - Tension adjustments for Feed Belt 1 and Feed Belt 2 are not necessary.
- Adjustment [TBD] (Refer to Chapter 7.)

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NOTICE

Refer to Sections 4.2.72 for the part number and appearance of the Feed Roller 3.

<Removal>

- (1) Remove the following parts.
 - Hopper Unit (Refer to Section 6.7.1.)
 - FX Cover L. (Refer to Section 6.8.1.)
 - FX Cover R. (Refer to Section 6.8.2.)
 - LED Glass FX (Refer to Section 6.12.5.)
 - Feed Belt 2 (Refer to Section 6.12.16.)
- (2) Remove a screw A (circled) securing the Plate from left side of the scanner to remove the Plate.



(3) Pull out the Feed Roller 3 in the direction of the arrow from left side of the scanner to remove.



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(1) Follow the above procedure in reverse. NOTICE

Make sure that the Feed Roller 3 is securely placed on the frame at right side of the scanner.



										Name	fi-6800/fi-668P Maintenar	RF/f	i-680PRB Ianual
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NOTICE

Refer to Sections 4.2.73 for the part number and appearance of the Feed Roller 4.

<Removal>

- (1) Remove the following parts.
 - Hopper Unit (Refer to Section 6.7.1.)
 - FX Cover L. (Refer to Section 6.8.1.)
 - FX Cover R. (Refer to Section 6.8.2.)
 - LED Glass FX (Refer to Section 6.12.5.)
 - Feed Belt 2 (Refer to Section 6.12.16.)
- (2) Remove two screws A (circled) securing the FIX Guide 3 to remove the FIX Guide 3.



(3) Remove a screw A (circled) securing the Plate from left side of the scanner to remove the Plate.



- [Left side of Scanner]
- (4) Pull out the Feed Roller 4 in the direction of the arrow from left side of the scanner to remove.



									Name	fi-6800/fi-668P Maintenan	RF/f ce N	i-680PRB Ianual
									Drawing No.	P1PA03575	5≁ E	80XX/6
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<Installation>

(1) Follow the above procedure in reverse.



Make sure that the Feed Roller 4 is securely placed on the frame at right side of the scanner.



(2) Install the Feed Belt 2 by referring to Section 6.12.16 in reverse.



- Tension adjustment for Feed Belt 2 is not necessary.
- Adjustment [TBD] (Refer to Chapter 7.)

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NOTICE

Refer to Sections 4.2.74 for the part number and appearance of the Feed Roller 5.

<Removal>

- (1) Remove the following parts.
 - Hopper Unit (Refer to Section 6.7.1.)
 - FX Cover L. (Refer to Section 6.8.1.)
 - FX Cover R. (Refer to Section 6.8.2.)
 - LED Glass FX (Refer to Section 6.12.5.)
 - FIX Guide 3 (Refer to step (2) in Section 6.12.9.3.)
 - Feed Belt 2 (Refer to Section 6.12.16.)
- (2) Remove two screws A (circled) securing the Plate from left side of the scanner to remove the Plate.



[Left side of Scanner]

(3) Pull out the Feed Roller 5 in the direction of the arrow from left side of the scanner to remove.



									Name	fi-6800/fi-668P Maintenan	RF/f ice N	i-680PRB Ianual
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<Installation>

(1) Follow the above procedure in reverse.



Make sure that the Feed Roller 5 is securely placed on the frame at right side of the scanner.



									Name	fi-6800/fi-668P Maintenar	PRF/f nce N	i-680PRB Ianual
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NOTICE

Refer to Sections 4.2.75 for the part number and appearance of the Feed Roller 6.

<Removal>

- (1) Remove the following parts.
 - Hopper Unit (Refer to Section 6.7.1.)
 - FX Cover L. (Refer to Section 6.8.1.)
 - FX Cover R. (Refer to Section 6.8.2.)
 - LED Glass FX (Refer to Section 6.12.5.)
 - FIX Guide 3 (Refer to step (2) in Section 6.12.9.3.)
 - Feed Belt 2 (Refer to Section 6.12.16.)
- (2) Remove a screw A (circled) securing the Plate from left side of the scanner to remove the Plate.



(3) Remove the Feed Roller 6 while removing the EXIT Belt 2.



									Name	fi-6800/fi-668P Maintenan	RF/f ice N	i-680PRB Ianual
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<Installation>

(1) Follow the above procedure in reverse.



Make sure that the Feed Roller 6 is securely placed on the frame at right side of the scanner.



(2) Install the Feed Belt 2 by referring to Section 6.12.16 in reverse.



- .e not necessa - Tension adjustments for Feed Belt 2 and EXIT Belt 2 are not necessary.
- Adjustment [TBD] (Refer to Chapter 7.)

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6.12.10 Feed Motor Unit 1 (for driving the Assist Roller)

Refer to Section 4.2.29 for the part number and appearance of the Feed Motor Unit.

<Removal>

- (1) Remove the following parts.
 - Hopper Unit (Refer to Section 6.7.1.)
 - FX Cover L (Refer to Section 6.8.1.)
 - Feed Belt 1 [for driving the Assist Roller] (Refer to Section 6.12.15.1.)
- (2) Recline the CT Base. (Refer to removal steps $(2) \sim (4)$ in Section 6.10.1.)
- (3) Disconnect a connector (enclosed with square) from inside of the Fixed Unit.



(4) Remove two screws B (circled) securing the Feed Motor Unit 1 while pushing the Feed Motor Unit 1 from inside of the Fixed Unit to remove the Feed Motor Unit 1.



<Installation>

Follow the above procedure in reverse.

- When installing the Feed Motor Unit 1, screw the Base FG Plate and Feed Motor Unit 1 with a screw B (circled) together.



- Tension adjustment for Feed Belt 1 is not necessary.
- Do not loosen the non-disassembly parts. When the Motor installation bracket position is fixed, belt tension adjustment is not necessary. (Refer to Section 6.5.)

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6.12.11 Hopper Bottom Sensor (Sensor)

Refer to Section 4.2.45 for the part number and appearance of the (Hopper Bottom) Sensor.

<Removal>

- (1) Remove the following parts.
- Hopper Unit (Refer to Section 6.7.1.)
- FX Cover L (Refer to Section 6.8.1.)
- Feed Belt 1 [for driving the Assist Roller] (Refer to Section 6.12.15.1.)
- (2) Recline the CT Base. (Refer to removal steps $(2) \sim (4)$ in Section 6.10.1.)
- (3) Remove the Feed Motor Unit 1. (Refer to Section 6.12.10.).
- (4) Move the Hopper Channel Unit in the direction of the arrow (direction of the Hopper rising).



(5) Remove two screws A (circled) and two tapping screws (circled) securing the BT Plate L to remove the PT Plate L.



(6) Unlatch the tab of the Sensor from the scanner frame, and then disconnect a connector (enclosed with square).



<Installation>

Follow the above procedure in reverse.

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6.12.12 Feed Motor Unit 2 (for driving the Feed Rollers 2 ~ 6)

Refer to Section 4.2.30 for the part number and appearance of the Feed Motor Unit 2.

<Removal>

- (1) Remove the following parts.
 - Hopper Unit (Refer to Section 6.7.1.)
 - FX Cover L (Refer to Section 6.8.1.)
 - Feed Belt 2 (Refer to Section 6.12.16.)
- (2) Recline the CT Base. (Refer to removal steps $(2) \sim (4)$ in Section 6.10.1.)
- (3) Remove the Optical Unit. (Refer to removal steps $(3) \sim (4)$ in Section 6.12.1.)
- (4) Disconnect a connector (enclosed with square) from the Feed Motor Unit 2 inside of the Fixed Unit.



(5) Remove two screws B (circled) securing the Feed Motor Unit 2 while holding the Feed Motor Unit 2 from inside of the Fixed Unit, and then remove the Feed Motor Unit 2.



[Left side of Scanner]

<Installation>

Follow the above procedure in reverse.



- Tension adjustment for Feed Belt 2 is not necessary.

Adjustment - [TBD] (Refer to Chapter 7.)

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6.12.13 LU Motor Unit (for driving the Hopper)

Refer to Section 4.2.31 for the part number and appearance of the LU Motor Unit.

<Removal>

- (1) Remove the following parts.
- Hopper Unit (Refer to Section 6.7.1.)
- FX Cover R (Refer to Section 6.8.2.)
- (2) Recline the CT Base. (Refer to removal steps $(2) \sim (4)$ in Section 6.10.1.)
- (3) Remove the HB Unit. (Refer to Section 6.12.18.)
- (4) Disconnect a connector (enclosed with square) from the LU Motor Unit inside of the Fixed Unit.



(1) Rotate the LU Gear R to the screw position. Remove two screws B (circled) securing the LU Motor Unit while holding the LU Motor Unit from inside of the Fixed Unit, and remove the LU Motor Unit.



Follow the above procedure in reverse.

- When installing the LU Motor Unit, tighten the Base FG Plate and LU Motor Unit with a screw B (circled) together.



- Do not loosen the non-disassembly parts. When the Motor installation bracket position is fixed, the Motor position adjustment is not necessary. (Refer to Section 6.5.)

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6.12.14 Empty Sensor

Refer to Section 4.2.48 for the part number and appearance of the Empty Sensor.

<Removal>

- (1) Remove the following parts.
 - Hopper Unit (Refer to Section 6.7.1.)
 - FX Cover L (Refer to Section 6.8.1.)
 - FX Cover R (Refer to Section 6.8.2.)
- (2) Remove a clamp (enclosed with square) at right side of the scanner, and then disconnect a connector (circled).



- (3) Recline the CT Base. (Refer to removal steps $(2) \sim (4)$ in Section 6.10.1.)
- (4) Remove four screws A (circled) and four tapping screws (circled) securing the BT Plate L and BT Plate R to remove these plates.



(5) Remove the HP Channel Unit in the direction of the arrow.



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(6) Remove a screw A (circled) securing the HP Plate R and two screws A (enclosed with square) securing the EMP Plate to remove the HP Plate R. Move the EMP Plate toward the HP Plate R from back of the HP Channel Unit to remove the EMP Plate.



(7) Unlatch the tabs securing the Empty Sensor, disconnect a connector (enclosed with square) and remove the Empty Sensor.



Follow the above procedure in reverse.

When installing the HP Plate R, bump the HP Plate R against the HP Channel ASSY.



Be sure to clamp the cable so that the nylon band is positioned between the connector and clamp in order to avoid the connector from coming off when the Hopper moves.

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6.12.15 Feed Belt 1

6.12.15.1 Feed Belt 1 (for driving the Assist Roller)

NOTICE

Refer to Section 4.2.32 for the part number and appearance of the Feed Belt 1.

<Removal>

- (1) Remove the following parts.
- Hopper Unit (Refer to Section 6.7.1.)
- FX Cover L (Refer to Section 6.8.1.)
- (2) Remove the Feed Belt 1 from left side of the scanner.



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6.12.16 Feed Belt 2 (for driving Feed Rollers 2 ~ 6)

Refer to Section 4.2.28 for the part number and appearance of the Feed Belt 2.

<Removal>

- (1) Remove the following parts.
- Hopper Unit (Refer to Section 6.7.1.)
- FX Cover L (Refer to Section 6.8.1.)
- (2) Move the Tension ASSY in the direction of the arrow to remove the Feed Belt 2.



<Installation>

Follow the above procedure in reverse.

NOTICE

- Tension adjustment for Feed Belt 2 is not necessary.

- Install the Feed Belt 2 aligning against the black guide line on the frame at left side of the scanner.



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6.12.17 B-BRK Unit

Refer to Section 4.2.25 for the part number and appearance of the B-BRK Unit.

<Removal>

- (1) Open the Brake Roller Cover, and remove the Brake Unit. (Refer to steps $(4) \sim (4)$ in Section 8.4.5.)
- (2) Remove a tapping screw securing the B-BRK Unit to remove the B-BRK Unit.



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6.12.18 HB Unit

NOTICE

Refer to Section 4.2.22 for the part number and appearance of the HB Unit.

<Removal>

- (1) Remove the Hopper Unit. (Refer to Section 6.7.1.)
- (2) Recline the CT Base. (Refer to steps $(2) \sim (4)$ in Section 6.10.1.)
- (3) Disconnect two connectors (enclosed with square). Remove two tapping screws (circled) securing the HB Unit while holding the HB Unit.





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<Installation>

Follow the above procedure in reverse.

Route the Sensor cable between the Shaft and Motor to install.



After installing the HB Unit, check that the cable does not touch the gear.



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6.12.19 Brake Encoder Sensor (Sensor)

NOTICE

Refer to Section 4.2.45 for the part number and appearance of the Brake Encoder Sensor.

<Removal>

- (1) Remove the Hopper Unit (Refer to Section 6.7.1.)
- (2) Recline the CT Base. (Refer to steps $(2) \sim (4)$ in Section 6.10.1.)
- (3) Remove the HB Unit. (Refer to Section 6.12.18.)
- (4) Remove a screw A (circled) securing the Sensor Plate to remove the Sensor Plate.



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6.12.20 Brake Unit

Refer to Section 4.2.26 for the part number and appearance of the Brake Unit.

<Removal>

- (1) Remove the following parts:
 - Hopper Unit (Refer to Section 6.7.1.)
- Brake Roller (Refer to step (2) in Section 8.4.5.)
- (2) Recline the CT Base. (Refer to steps $(2) \sim (4)$ in Section 6.10.1.)
- (3) Remove the HB Unit. (Refer to Section 6.12.18.)
- (4) Remove a screw C (circled) securing the FG terminal to remove the FG terminal.



(5) Remove the spring from the frame.



(6) Remove an E-ring (circled), remove the shaft in the direction of the arrow, and then the Brake Unit.



<Installation>

Follow the above procedure in reverse.



Installing the FG terminal in the wrong direction does not let itself contact the Brake Unit. Check the orientation.



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6.13 Replacing the Parts in the Revolve Unit

6.13.1 Optical Unit

Refer to Section 4.2.15 for the part number and appearance of the Optical Unit.

<Removal>

- (1) Remove the Stacker Unit. (Refer to Section 6.7.2.)
- (2) Remove a screw A (circled) securing the STK Guide Plate to remove the STK Guide Plate.



(3) Remove a white retaining ring and move the STK Shaft ASSY in the direction of the arrow slightly to remove upward.



(4) Remove three screws A (circled) securing the Optical Cover to remove the Optical Cover.



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(5) Remove a screw A (circled) on the FG Clamp and disconnect two connectors (enclosed with square).



(6) Remove a screw A (circled) securing the Optical Hold, remove the Optical Holds at right and left sides, and then remove the Optical Unit.



Follow the above procedure in reven

NOTICE

- When holding the Optical Unit, do not touch the mirror (glass) or the CCD board (metal frame part) but the black frame.
- Check the cable route when installing the Optical Cover.



After replacing the Optical Unit, perform Offset adjustment and White level adjustment. (Refer to Chapter 7.)

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6.13.2 Read Top Sensor (Prism Sensor)

NOTICE

Refer to Section 4.2.46 for the part number and appearance of the Read Top Sensor.

<Removal>

- (1) Remove the following parts.
 - Stacker Unit (Refer to Section 6.7.2.)
 - Optical Unit (Refer to Section 6.13.1.)
- (2) Remove the Prism Sensor from the Revolve Unit, and then disconnect a connector (enclosed with square) from the Prism Sensor.



<Installation>

Follow the above procedure in reverse.



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6.13.3 Imprinter Top Sensor (Prism Sensor)

NOTICE

Refer to Section 4.2.46 for the part number and appearance of the Imprinter Top Sensor.

<Removal>

- (1) Open the ADF. (Refer to Section 8.1.3.)
- (2) Remove four screws A (circled) securing the RV Guide 2 to remove the RV Guide 2.



(3) Remove two tapping screws (circled) securing the RV Roller ASSY3 to remove the RV Roller ASSY3.



(4) Unlatch the tabs securing the Prism Sensor from inside of the Revolve Unit.



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(5) Remove the Prism Sensor from the Revolve Unit, and then disconnect a connector (enclosed with square) from the Prism Sensor.



<Installation>

Follow the above procedure in reverse.

NOTICE

.4FG-SHEET If fi-680PRF imprinter option is installed, insert the IM-FG-SHEET between RV Guide 2 and RV-FRAME and fix it. (Refer to installation procedure in Section 9.6.3.2.)

Adjustment – (TBD) (Refer to Chapter 7.)



6.13.4 Stacker Sensor (Sensor PTR)

NOTICE

Refer to Section 4.2.50 for the part number and appearance of the Stacker Sensor.

<Removal>

- (1) Remove the RV Cover R. (Refer to Section 6.8.4.)
- (2) Remove a tapping screw (circled) securing the Guide from right side of the scanner to remove the Guide.
- (3) Disconnect a connector to remove the Sensor PTR.



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6.13.5 Stacker Sensor (Sensor LED)

NOTICE

Refer to Section 4.2.51 for the part number and appearance of the Stacker Sensor.

<Removal>

- (1) Remove the RV Cover L. (Refer to Section 6.8.3.)
- (2) Unhook the two cable clamps (enclosed with square) to remove the Stacker Sensor cable.



(3) Remove a tapping screw (circled) securing the Guide, disconnect a connector (enclosed with square) from the Sensor LED, and then remove the Sensor LED.



<Installation>

Follow the above procedure in reverse.

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6.13.6 BW Unit

Refer to Section 4.2.20 for the part number and appearance of the BW Unit.

<Removal>

- (1) Remove the following parts.
- RV Cover L (Refer to Section 6.8.3.)
- RV Cover R (Refer to Section 6.8.4.)
- (2) Remove four screws A (circled) securing the RV Side Cover L to remove the RV Side Cover L.



(3) Remove four screws A (circled) securing the RV Side Cover R to remove the RV Side Cover R.



(4) Remove fulcrum screws (one for each right and left sides, circled) securing the BW Unit while holding the BW Unit, and then remove the BW Unit.



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Section 6.13.6

(5) Remove two screws A (circled) securing the BW Plate and Glass FG, and then remove the BW Plate and Glass FG from the BW Unit.



(6) Move the BW Assist slightly from the back of the BW Unit to remove.



Follow the above procedure in reverse.

- Install the BW Assist, Glass FG, and BW Plate into the BW Unit first before installing the BW Unit into the scanner.
- When holding the BW Unit, do not touch the mirror (glass) but the black frame.
- BW Plate contact surface on the right side of the scanner and that on the left side are not the same. Check right and left at installation.







[Left side of Scanner]

After replacing the BW Unit, perform "Offset adjustment" and "White level adjustment". (Refer to Section 7.X.)

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6.13.7 BW Motor Unit

Refer to Section 4.2.21 for the part number and appearance of the BW Motor Unit.

<Removal>

- (1) Remove the following parts.
- RV Cover L (Refer to Section 6.8.3.)
- RV Side Cover L (Refer to step (2) in Section 6.13.6.)
- (2) Unhook the cable from the clamp on the Revolve Unit, and then disconnect a connector (enclosed with square).



(3) Remove two tapping screws (circled) securing the BW Motor Unit, disconnect a connector (enclosed with square) at the Sensor side, and then remove the BW Motor Unit.



<Installation>

Follow the above procedure in reverse.

When installing the BW Motor Unit, hook the drive gear onto the BW Unit arm.



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6.13.8 Backside Background Changeover Sensor (Sensor)

NOTICE

Refer to Section 4.2.45 for the part number and appearance of the Sensor.

<Removal>

- (4) Remove the following parts.
 - RV Cover L (Refer to Section 6.8.3.)
- RV Side Cover L (Refer to step (2) in Section 6.13.6.)
- BW Motor Unit (Refer to Section 6.13.7.)
- (5) Unlatch the tabs on the Sensor, and then remove the Sensor from the BW Motor Unit.



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6.13.9 LED Glass RV

NOTICE

Refer to Section 4.2.17 for the part number and appearance of the LED Glass RV.

<Removal>

- (1) Open the ADF. (Refer to Section 8.1.3.)
- (2) Loosen a thumb screw (circled) securing the LED Glass RV, and open the LED Glass RV slightly in the direction of the arrow to remove the LED Glass RV.



<Installation>

Latch the LED Glass RV on two tabs at right side of the LED Unit RV, and fix the LED Glass RV on the scanner with the thumb screw.

NOTICE

When holding the LED Glass FX, do not touch the mirror (glass) but the black frame.



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6.13.10 LED Unit RV

NOTICE

Refer to Section 4.2.19 for the part number and appearance of the LED Unit RV.

<Removal>

- (1) Remove the following parts.
 - RV Cover L (Refer to Section 6.8.3.)
 - RV Cover R (Refer to Section 6.8.4.)
 - RV Side Cover L (Refer to step (2) in Section 6.13.6.)
 - RV Side Cover R (Refer to step (3) in Section 6.13.6.)
 - LED Glass RV (Refer to Section 6.13.9.)
- (2) Disconnect a cable connector (enclosed with square) connected to the LED Unit RV from right side of the scanner.



(3) Remove the screw D (circled) securing the BW Spring at right side of the scanner to remove the BW Spring.



(4) Remove fulcrum screws (one for each side, circled) that support the LED Unit FX while holding the LED Unit FX, and remove the LED Unit FX.



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<Installation>

Follow the above procedure in reverse.

- When holding the LED Unit FX, do not touch the mirror (glass) but the black frame.
- Route the cable between the two prongs on the RV Frame when connecting the connector.



- BW Spring contact surface on the right side of the scanner and that on the left side are not the same. Check the positions at installation.



After replacing the LED Unit FX, perform White level adjustment. (Refer to Section 7.X.)

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6.13.11 Exit Roller (Revolve Unit) 6.13.11.1 Exit Roller 1 NOTICE

Refer to Sections 4.2.76 for the part number and appearance of the Exit Roller. <Removal>

- (1) Remove the following parts.
- Top Cover (Refer to Section 6.8.3.)
- [With fi-680PRB Imprinter option installed] Top Cover IMP (Refer to Section 9.6.3.5.)
- (2) Remove two tapping screws (circled) securing the Exit Guide T to remove the Exit Guide T.



(3) Remove a screw A (circled) securing the Plate from left side of the scanner to remove the Plate.



(4) Remove the Exit Roller 1 while removing the Exit Belt 2.



<Installation>

Follow the above procedure in reverse.



Tension adjustment for Exit Belt 2 is not necessary. Adjustment - [TBD] (Refer to Chapter 7.)

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6.13.11.2 Exit Roller 2

Refer to Sections 4.2.77 for the part number and appearance of the Exit Roller 2.

- <Removal>
- (1) Open the Top Cover. (Refer to Section 8.1.4.)
- (2) Remove two tapping screws (circled) securing the Exit Guide U, and remove the FG Spring L, FG Spring R and Exit Guide U.



- (3) Open the Paper Path Unit. (Refer to step (2) in Section 6.7.2.)
- (4) Remove the Exit Belt 1. (Refer to steps $(3) \sim (4)$ in Section 6.13.18.)
- (5) Remove tapping screws (one for each side, circled) securing the Plates at right and left sides, and remove the Exit Roller 2.



<Installation>

Follow the above procedure in reverse.

Tension adjustment for Exit Belt 1 is not necessary. Adjustment - [TBD] (Refer to Chapter 7.)

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6.13.12 Feed Motor Unit 1 (for driving the Separator Roller)

Refer to Section 4.2.29 for the part number and appearance of the Feed Motor Unit 1.

<Removal>

- (1) Remove the following parts.
 - Stacker Unit (Refer to Section 6.7.2.)
 - RV Cover R (Refer to Section 6.8.4.)
 - RV Side Cover R (Refer to step (3) in Section 6.13.6.)
 - Separator Roller (Refer to steps (3) ~ (5) in Section 8.4.4.)
 - RV Roller 1 (Refer to steps (2) ~ (3) in Section 6.13.34.1.)
 - Guide SEP (Refer to Section 6.13.25.)
- (2) Disconnect a cable connector (enclosed with square) connected to the Sensor Unit from right side of the scanner, and pull it out.
- (3) Remove two tapping screws (circled) securing the RV Sensor Unit to remove the RV Sensor Unit.



(4) Disconnect a connector (enclosed with square) from the SEP Motor ASSY.



(5) Remove three screws B (circled) securing the SEP Motor ASSY while holding the SEP Motor ASSY from the bottom, and then remove the SEP Motor ASSY.

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Inside of the ADF may be damaged if the Motor falls off. Be sure to hold the Motor from the bottom when removing the SEP Motor ASSY.



(6) Remove two screws B (circled) securing the SEP Motor Plate, and then separate the SEP Motor ASSY into the Feed Motor Unit 1, Feed Belt 1 and SEP Motor Plate.



<Installation>



- Tension adjustment for Feed Belt 1 is not necessary. Do not loosen the non-disassembly parts. When the Motor installation bracket position is fixed, belt tension adjustment is not necessary. (Refer to Section 6.5.)
- Bump the SEP Motor ASSY against the two areas (arrows) on the RV Frame in the photo below.



- Install the RV Sensor Unit by being careful that the relay connector is not tucked by the RV Sensor Unit.



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6.13.13 Feed Belt 1 (for driving the Separator Roller)

NOTICE

Refer to Section 4.2.32 for the part number and appearance of the Feed Belt 1.

<Removal>

- (1) Remove the following parts.
 - Stacker Unit (Refer to Section 6.7.2.)
 - RV Cover R (Refer to Section 6.8.4.)
 - RV Side Cover R (Refer to step (3) in Section 6.13.6.)
 - Separator Roller (Refer to steps (3) ~ (5) in Section 8.4.4.)
 - RV Roller 1 (Refer to steps (2) ~ (3) in Section 6.13.34.1.)
 - Guide SEP (Refer to Section 6.13.25.)
 - SEP Motor ASSY (Refer to steps (2) ~ (5) in Section 6.13.12.)
- (2) Remove the Feed Belt 1 from the SEP Motor ASSY.



<Installation>

Follow the above procedure in reverse.

Tension adjustment for Feed Belt 1 is not necessary.

This motor does not require belt tension adjustment as the motor bracket position is fixed. Do NOT loosen the non-disassembly screws. (Refer to Section 6.5.)



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6.13.14 Feed Roller Rotation Detection Sensor (Photo Sensor)

NOTICE

Refer to Section 4.2.47 for the part number and appearance of the Sensor.

<Removal>

- (1) Remove the following parts.
 - RV Cover R (Refer to Section 6.8.4.)
 - RV Side Cover R (Refer to step (3) in Section 6.13.6.)
 - Separator Roller (Refer to steps $(3) \sim (5)$ in Section 8.4.4.)
 - RV Roller 1 (Refer to steps (2) ^(3) in Section 6.13.34.1.)
 - Guide SEP (Refer to Section 6.13.25.)
- RV Sensor Unit (Refer to steps (2) ~ (5) in Section 6.13.12.)
- (2) Unlatch two tabs (circled) securing the Photo sensor from the RV Sensor Unit, and then disconnect a connector (enclosed with square).



<Installation>

Follow the above procedure in reverse.

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6.13.15 Pick Sensor / Skew Sensor / Feed Top Sensor (Prism Sensor)

NOTICE

Refer to Section 4.2.46 for the part number and appearance of the Sensor.

<Removal>

- (1) Remove the following parts.
 - RV Cover R (Refer to Section 6.8.4.)
 - RV Side Cover R (Refer to step (3) in Section 6.13.6.)
 - Separator Roller (Refer to steps (3) ~ (5) in Section 8.4.4.)
 - RV Roller 1 (Refer to steps $(2) \sim (3)$ in Section 6.13.34.1.)
 - Guide SEP (Refer to Section 6.13.25.)
 - RV Sensor Unit (Refer to steps (2) ~ (3) in Section 6.13.12.)
 - [When replacing the Pick Sensor] Separator Brush (Refer to Section 6.13.30.)
- (2) Unlatch two tabs (circled) from the RV Sensor Unit, and then disconnect connectors (one for each, enclosed with square) on the Prism Sensor.



<Installation>

Follow the above procedure in reverse.

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6.13.16 Jam Sensor (Prism Sensor)

NOTICE

Refer to Section 4.2.46 for the part number and appearance of the Sensor.

<Removal>

- (1) Open the ADF. (Refer to Section 8.1.3.)
- (2) Remove four screws A (circled) securing the RV Guide 1 to remove the RV Guide 1.



(3) Unlatch tabs (two at each side, circled) from the Revolve Unit, and then disconnect connectors (one at each side).



<Installation> Follow the above procedure in reverse.

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6.13.17 LU Motor Unit (for driving the Stacker)

NOTICE

Refer to Section 4.2.31 for the part number and appearance of the LU Motor Unit.

<Removal>

- (1) Remove the following parts.
 - Stacker Unit (Refer to Section 6.7.2.)
 - RV Cover R (Refer to Section 6.8.4.)
 - RV Side Cover R (Refer to step (3) in Section 6.13.6.)
 - Separator Roller (Refer to step $(3) \sim (5)$ in Section 8.4.4.)
 - RV Roller 1 (Refer to steps $(2) \sim (3)$ in Section 6.13.34.1.)
 - SEP Motor Unit (Refer to steps (2) ~ (5) in Section 6.13.12.)
 - Pick Roller Unit (Refer to Section 6.13.22.)
- (2) Disconnect a connector from the STK Motor ASSY.



(3) Remove two screws B (circled) securing the STK Motor ASSY while holding the STK Motor ASSY from the bottom,, and then remove the STK Motor ASSY.

NOTICE

Inside of the ADF may be damaged if the Motor falls off. Be sure to hold the Motor from the bottom when removing the STK Motor ASSY.



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(4) Remove three Idler gears and two screws B (circled) securing the STK Motor Plate from the STK Motor ASSY, and then remove the LU Motor Unit.



<Installation>

Follow the above procedure in reverse.



.stallarion Do not loosen the non-disassembly parts. When the Motor installation bracket position is fixed, Motor position adjustment is not necessary. (Refer to Section 6.5.)

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6.13.18 Exit Motor

NOTICE

Refer to Section 4.2.40 for the part number and appearance of the Exit Motor.

<Removal>

- (1) Remove the following parts.
 - RV Cover L (Refer to Section 6.8.3.)
 - RV Side Cover L. (Refer to step (2) in Section 6.13.6.)
- (2) Open the paper path unit. (Refer to step (2) in Section 6.7.2.)
- (3) Unhook the EXIT Motor cable from the clamp on the Revolve Unit from left side of the scanner, and then disconnect a connector (enclosed with square).



(4) Insert the EXIT Motor connector into the frame hole, and push it into the EXIT Motor side.



(5) Remove two tapping screws (circled) securing the EX Motor Cover to remove the EX Motor Cover.



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(6) Remove two tapping screws (circled) securing the Exit Motor, remove the Exit Belt 1, and then remove the Exit Motor.



- Tension adjustment for the Exit Belt 1 is not necessary.

Do not loosen the non-disassembly parts. When the Matter installation bracket position is fixed, Motor position adjustment is not necessary. (Refer to Section 6.5.)

Adjustment – (TBD) (Refer to Chapter 7.)

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6.13.19 Exit Sensor (Prism Sensor)

NOTICE

Refer to Section 4.2.46 for the part number and appearance of the Exit Sensor.

<Removal>

- (1) Remove the following parts.
- Top Cover (Refer to Section 6.8.7.)
- Exit Roller (Refer to Section 6.13.11.1.)
- (2) Remove tapping screws (two for each side, circled) securing the EX Plates, and then remove the EX Plates.



(3) Remove the EX Lock Spring, remove the EX Lock Shaft in the direction of the arrow, and then remove the Lock Arm and EX Lock Lever.



(4) Unlatch the tabs securing the Prism Sensor, disconnect a connector (enclosed with square) from the Prism Sensor, and then remove the Prism Sensor.



<Installation>

Follow the above procedure in reverse.

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6.13.20 Exit Belt 1

NOTICE

Refer to Section 4.2.41 for the part number and appearance of the Exit Belt 1.

<Removal>

- (1) Remove the following parts.
 - RV Cover L (Refer to Section 6.8.3.)
- RV Side Cover L (Refer to step (2) in Section 6.13.6.)
- (2) Open the Paper Path Unit. (Refer to step (2) in Section 6.7.2.)
- (3) Remove the following parts.
 - Exit Belt 1 (Refer to steps (3) ~ (4) in Section 6.13.18.)
- Exit Roller 2 (Refer to Section 6.13.11.2.)
- (4) Remove the Exit Belt 1 from the Exit Roller 2.



<Installation>

Follow the above procedure in reverse.

Tension adjustment for the Exit Belt 1 is not necessary. Adjustment-(TBD) (Refer to Chapter 7.)

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6.13.21 Exit Belt 2

Refer to Section 4.2.42 for the part number and appearance of the Exit Belt 2. <Removal>

- (1) Remove the following parts.
- Hopper Unit (Refer to Section 6.7.1.)
- FX Cover L (Refer to Section 6.8.1.)
- FX Cover R (Refer to Section 6.8.2.)
- RV Cover L (Refer to Section 6.8.3.)
- LED Glass FX (Refer to Section 6.12.5.)
- FIX Guide 3 (Refer to step (2) in Section 6.12.9.3.)
- Feed Belt 2 (Refer to Section 6.12.16.)
- Feed Roller 6 (Refer to Section 6.12.9.5.)
- (2) Remove screws A (one at each side, circled) securing the Damper Stoppers, and remove the Damper Stoppers at right and left sides.



(3) Remove a screw D (circled) securing the Gas Damper, change the installing position of the Gas Damper from the normal position to fixed position for maintenance, and fix it with a screw D (circled).



(4) When replacing the Exit Belt 2 inside, remove the Exit Belt 2 from the Exit Roller 1.



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(5) Remove a screw A (circled) securing the Cable clamp on the Fixed Unit from left side of the scanner and screw A (enclosed with square, circled) securing the FG Cable, and then an E-ring and bearing securing the FL Shaft.



(6) Remove two screws A (circled) securing the FL Shaft Plate, and then remove the FL Shaft Plate on the Fixed Unit from inner left side of the scanner.



(7) Wind in the EXIT Belt 2 outside under the FL Shaft, raise the Revolve Unit and remove the Exit Belt 2 by rotating it in the direction of the arrow.



(8) Remove the Exit Belt 2 inside in step (7) again if necessary to remove it.

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<Installation>

Follow the above procedure in reverse.

- Installing the FG terminal in the wrong direction does not let itself contact the Brake Unit. Check the orientation.



- Route the cable as shown below.



- Tension adjustment for the Exit Belt 2 is not necessary.
- Be sure to return the Gas Damper to the original position after replacement.



									Name	fi-6800/fi-668P Maintenan	RF/f ice N	i-680PRB Ianual
									Drawing No.	P1PA03575	5≁ E	30XX/6
Rev.	DATE	DESIG	. CHECK	APPR.	DESCRIPTIO	DN			DE		Dogo	201
DES	SIG. Apri	20,2009	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	ГГ		гауе	/383

6.13.22 Pick Roller Unit

NOTICE

Refer to Section 4.2.35 for the part number and appearance of the Pick Roller Unit.

<Removal>

- (1) Remove the following parts.
 - Stacker Unit (Refer to Section 6.7.2.)
 - RV Cover R (Refer to Section 6.8.4.)
 - RV Side Cover R (Refer to step (3) in Section 6.13.6.)
 - Separator Roller (Refer to steps (3) ~ (5) in Section 8.4.4.)
 - RV Roller 1 (Refer to steps (2) ~ (3) in Section 6.13.34.1.)
 - SEP Motor Unit (Refer to steps (2) ~ (5) in Section 6.13.12.)
- (2) Remove a screw D (circled) securing the FG Cable on the Revolve Unit from right side of the scanner, and disconnect two cable connectors (enclosed with square) of the Pick Roller Unit.



(3) Remove four screws B (circled) while holding the Pick Roller Unit from the bottom.



(4) Unhook a connector (enclosed with square) and cable from two clamps, and then remove the Pick Roller Unit.



										Name	fi-6800/fi-668P Maintenan	RF/f	i-680PRB Ianual
										Drawing No.	P1PA03575	5≁ E	BOXX/6
Rev.	DA	ΤE	DESIG	. CHECK	APPR.	DESCRIPTIO	DN			DE		Dogo	202 /
DE	SIG. A	April 20	0,2009	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	ГГ		гауе	/383

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<Installation>

Follow the above procedure in reverse.

- When the Pick Chute Plate is set other than at the center (normal), return it to the original position. (Refer to Section 6.13.24.)
- Installing the FG terminal in the wrong direction does not let itself contact the Pick Roller Unit. Check the orientation.



									Name	fi-6800/fi-668P Maintenar	RF/f	i-680PRB Ianual
									Drawing No.	P1PA03575	5≁ E	80XX/6
Rev.	DATE	DESIG.	CHECK	APPR.	DESCRIPTIO	DN			DE		Dogo	203 /
DES	SIG. April	20, 2009	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	ГГ		гауе	/383

NOTICE

Refer to Section 4.2.36 for the part number and appearance of the Pick Motor Unit.

<Removal>

- (1) Remove the following parts.
 - Stacker Unit (Refer to Section 6.7.2.)
 - RV Cover R (Refer to Section 6.8.4.)
 - RV Side Cover R (Refer to step (3) in Section 6.13.6.)
 - Separator Roller (Refer to steps (3) ~ (5) in Section 8.4.4.)
 - RV Roller 1 (Refer to steps (2) ~ (3) in Section 6.13.34.1.)
 - SEP Motor ASSY (Refer to steps (2) ~ (5) in Section 6.13.12.)
 - Pick Roller Unit (Refer to Section 6.13.22.)
- (2) Disconnect the Pick Motor Unit connector (enclosed with square) and two screws A (circled) on the Pick Roller Unit to remove the Pick Motor Unit.



<Installation>

Follow the above procedure in reverse.

Install the Pick Idler Gear onto the Pick Motor Unit before installing the Pick Motor Unit onto the scanner.



										Name	fi-6800/fi-668P Maintenar	RF/fi nce N	-680PRB Ianual
										Drawing No.	P1PA03575	5≁ B	0XX/6
Rev. DE	DA SIG. A	TE April 20	DESIG. 0, 2009	CHECK K.Okada	APPR. CHECK	DESCRIPTIC A.Miyoshi	N	APPR.	I.Fujioka	PF	ULMITED	Page	²⁰⁴ / ₃₈₃

6.13.24 Manual Feed Sensor / Pick Position Sensor (Sensor)

NOTICE

Refer to Section 4.2.45 for the part number and appearance of the Sensor.

<Removal>

- (1) Remove the following parts.
 - Stacker Unit (Refer to Section 6.7.2.)
 - RV Cover R (Refer to Section 6.8.4.)
 - RV Side Cover R (Refer to step (3) in Section 6.13.6.)
 - Separator Roller (Refer to steps (3) ~ (5) in Section 8.4.4.)
 - RV Roller 1 (Refer to steps (2) ~ (3) in Section 6.13.34.1.)
 - SEP Motor ASSY (Refer to steps (2) ~ (5) in Section 6.13.12.)
 - Pick Roller Unit (Refer to Section 6.13.22.)
- (2) Remove a thumb screw (circled) to remove the Pick Chute Plate.

- NOTICE

When the Pick Chute Plate is set other than at the center (normal), return it to the original position. (Refer to Section 6.13.24.)



(3) Unlatch the tab from lateral side of the Pick Roller Unit to remove the Sensor. Disconnect connectors (one for each) from the Sensor.



										Name	fi-6800/fi-668P Maintenan	RF/f	i-680PRB Ianual
										Drawing No.	P1PA03575	5≁ E	80XX/6
Rev.	DA	ΑTΕ	DESIG	. CHECK	APPR.	DESCRIPTIO	DN			DE		Dogo	205 /
DES	SIG.	April 2	0,2009	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	ГГ		Fage	/383

<Installation>

Follow the above procedure in reverse.

- Bump the Pick Chute Plate against the Pick Roller Unit frame, and fix it with hexagonal nut.
- When the Pick Chute Plate is set other than at the center (normal), return it to the original position. (Refer to Section
- 6.13.24.)



										Name	fi-6800/fi-668P Maintenan	RF/f ce N	i-680PRB Ianual	
										Drawing No.	^g P1PA03575≁ B0XX/6			
Rev.	DAT	TEI	DESIG.	CHECK	APPR.	DESCRIPTIO	DN					Dogo	206 /	
DES	SIG. A	April 20,	,2009	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	ГГ		гауе	/383	

6.13.25 Guide SEP

- NOTICE

Refer to Section 4.2.37 for the part number and appearance of the Guide SEP

<Removal>

- (1) Remove the RV Roller 1. (Refer to Section 6.13.34.1.)
- (2) Open the Guide SEP, and slide it in the direction of the arrow to remove.



<Installation> Follow the above procedure in reverse.

6.13.26 (Reserved)

									Name	fi-6800/fi-668P Maintenar	RF/f ice N	i-680PRB Ianual
									Drawing No.	P1PA03575	80XX/6	
Rev DF	DATE SIG April	DESIG.	CHECK K.Okada	APPR. CHECK	DESCRIPTIC A.Mivoshi)N	APPR	LFuijoka	PFU LMITED		Page	207

6.13.27 Stacker Bottom Sensor (Sensor)

NOTICE

Refer to Section 4.2.45 for the part number and appearance of the Sensor.

<Removal>

- (1) Remove the following parts.
 - Stacker Unit (Refer to Section 6.7.2.)
 - RV Cover L (Refer to Section 6.8.3.)
 - RV Side Cover L (Refer to step (3) in Section 6.13.6.)
 - [With the imprinter installed] Control PCA (Refer to steps (2) ~ (4) in Section 9.6.3.1.)
- (2) Unlatch the tab on the Sensor at the Revolve unit from left side of the scanner, and then disconnect a connector (enclosed with square) to remove the Sensor.



									Name	fi-6800/fi-668P Maintenan	RF/f	i-680PRB Ianual	
									Drawing No.	P1PA03575≁ B0XX/6			
Rev.	DATE	DESIG	. CHECK	APPR.	DESCRIPTIO	DN			DE		Dogo	208 /	
DE	SIG. April	20,2009	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	ГГ		гауе	/383	

6.13.28 MD PCA



Refer to Section 4.2.34 for the part number and appearance of the MD PCA.

<Removal>

- (1) Remove the following parts.
 - RV Cover R (Refer to Section 6.8.4.)
 - RV Side Cover R (Refer to step (3) in Section 6.13.6.)
- (2) Disconnect 11 connectors connected to the MD PCA. (Refer to installation procedure for the connector positions.)
- (3) Remove six screws A (circled) securing the MD PCA, move the MD PCA slightly, and then disconnect a connector (enclosed with square) at the back of the Gas Damper.



									Name	fi-6800/fi-668P Maintenan	RF/f ce N	i-680PRB Ianual
									Drawing No.	P1PA03575≁ B0XX/6		
Rev.	DATE	DESIG.	CHECK	APPR.	DESCRIPTIO	DN			DE		Dogo	209
DES	SIG. April 2	0,2009	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka			гауе	/383

6.13.29 Top Cover Open Switch (Micro Switch)

NOTICE

Refer to Section 4.2.49 for the part number and appearance of the Micro Switch.

<Removal>

- (1) Remove the following parts.
 - Remove the RV Cover R (Refer to Section 6.8.4.)
 - Remove the RV Side Cover R (Refer to step (3) in Section 6.13.6.)
 - Remove the MD PCA (Refer to Section 6.13.28.)
- (2) Open the Paper Path Unit. (Refer to step (2) in Section 6.7.2.)
- (3) Remove two screws F (circled) securing the Micro Switch from inside of the Paper Path Unit.



(4) Disconnect two connectors on the Revolve Unit from right side of the scanner to remove the Micro Switch.



<Installation>

Follow the above procedure in reverse.

Install the Micro Switch by being careful of the connected connectors (cable colors) as shown in the photo below.

Not connect (not in use)	ed		
Connec	tor	Connector	
(Orange	e wire)	(Red wire. Yellow wire)	

									Name	fi-6800/fi-668PR Maintenanc	RF/fi ce M	-680PRB anual
								P1PA03575≁	≁ B	0XX/6		
Rev.	DATE	DESIG	i. CHECK	APPR.	DESCRIPTIO	DN						210
DES	SIG. April	20,2009	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	ГГ		-aye	/383

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6.13.30 Separator Brush

NOTICE

Refer to Section 4.2.38 for the part number and appearance of the Separator Brush.

<Removal>

- (1) Remove the following parts.
 - RV Cover R (Refer to Section 6.8.4.)
 - RV Side Cover R (Refer to step (3) in Section 6.13.6.)
 - Separator Roller (Refer to steps (3) ~ (5) in Section 8.4.4.)
 - RV Roller 1 (Refer to steps (2) ~ (3) in Section 6.13.34.1.)
 - RV Sensor Unit (Refer to steps (2) ~ (3) in Section 6.13.12.)
- (2) Unlatch two tabs (enclosed with square) securing the Separator Brush from the RV Sensor Unit, and then remove the Separator Brush.



<Installation>

Follow the above procedure in reverse.

Set the Separator Brush on the hooks of the RV Sensor Unit before installing the Separator Brush.



									Name	fi-6800/fi-668P Maintenan	RF/f ce N	i-680PRB Ianual
									Drawing No.	P1PA03575≁ B0XX/6		
Rev.	DAT	E DESI	G. CHECK	APPR.	DESCRIPTIO	ON			P		Page	211
DE	SIG. Ap	ril 20, 2009	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	F		i aye	/383

6.13.31 Exit Brush

NOTICE

Refer to Section 4.2.39 for the part number and appearance of the Exit Brush.

<Removal>

- (1) Remove the following parts.
 - Top Cover (Refer to Section 6.8.7.)
 - [With fi-680PRB imprinter option installed] Top Cover IMP (Refer to Section 9.6.3.5.)
- (1) Remove two tapping screw (circled), and then remove the Exit Brush.



<Installation>

Follow the above procedure in reverse.

Check that the Exit Brush orientation is correct (direction of the arrow) and that the Brush is fit in the boss on the EX Top Frame.



									Name	fi-6800/fi-668P Maintenan	RF/f ce N	i-680PRB Ianual	
									Drawing No.	P1PA03575≁ B0XX/6			
Rev.	DATE	DESIG.	CHECK	APPR.	DESCRIPTIO	ON			DE		Dogo	212	
DE	SIG. April	20, 2009	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	ГГ		гауе	/383	

6.13.32 Latch

- NOTICE

Refer to Section 4.2.62 for the part number and appearance of the Latch.

<Removal>

- (1) Open the Hopper Unit. (Refer to Section 8.1.2.)
- (2) Pull out the Latch with a plier.



<Installation>

									Name	fi-6800/fi-668P Maintenan	RF/f ice N	i-680PRB Ianual
									Drawing No.	P1PA03575 + B0XX/6		
Rev.	DATE	DESIG.	CHECK	APPR.	DESCRIPTIO	ON			DE		Dogo	213
DE	SIG. April	20,2009	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka			rage	/383

6.13.33 Lock Arm / Lock Lever

6.13.33.1 Lock Arm

Refer to Section 4.2.65 for the part number and appearance of the Lock Arm.

<Removal>

- (1) Remove the following parts.
 - RV Cover L (Refer to Section 6.8.3.)
 - RV Cover R (Refer to Section 6.8.4.)
 - RV Side Cover L (Refer to step (2) in Section 6.13.6)
 - RV Side Cover R (Refer to step (3) in Section 6.13.6.)
- (2) Remove an E-ring with a flat-blade screwdriver.



(3) Insert a flat-blade screwdriver between the scanner and Spring. Make an interval with the Lock Arm, and then remove the Lock Arm.



<Installation>

Follow the above procedure in reverse.

									Name	fi-6800/fi-668P Maintenan	RF/f ice N	i-680PRB Ianual
									Drawing No.	P1PA03575	80XX/6	
Rev.	DATE	DESIG.	CHECK	APPR.	DESCRIPTIO	ON			DE		Dogo	214 /
DE	SIG. April	20, 2009	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	ГГ		гауе	/383

6.13.33.2 Lock Lever

NOTICE

Refer to Section 4.2.66 for the part number and appearance of the Lock Lever.

<Removal>

- (1) Remove the following parts.
 - Stacker Unit (Refer to Section 6.7.2.)
 - RV Cover L (Refer to Section 6.8.3.)
 - RV Cover R (Refer to Section 6.8.4.)
 - RV Side Cover L (Refer to step (2) in Section 6.13.6)
 - RV Side Cover R (Refer to step (3) in Section 6.13.6.)
- (2) Remove the Lock Arms at right and left sides. (Refer to Section 6.13.33.1.)
- (3) Raise the Lock Lever from inside of the Revolve Unit slightly, remove two screws A to remove the Lock Lever.



										Name	fi-6800/fi-668P Maintenar	RF/f ice N	i-680PRB Ianual	
										Drawing No.	P1PA03575≁ B0XX/6			
Rev	. D.	ATE	DESIG	. CHECK	APPR.	DESCRIPTIO	DN			DE		Dogo	215	
DE	SIG.	April 2	0,2009	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	ГГ		гауе	/383	

6.13.34 RV Roller6.13.34.1 RV Roller 1 (for receiving the Assist Roller drive)

Refer to Section 4.2.78 for the part number and appearance of the RV Roller 1.

<Removal>

- (1) Open the ADF. (Refer to Section 8.1.3.)
- (2) Remove four screws A (circled) securing the RV Guide 1, and remove the RV Guide 1.



(3) Remove two Feed Holders to remove the RV Roller 1.



									Name	fi-6800/fi-668P Maintenan	RF/f ice N	i-680PRB Ianual	
									Drawing No.	wing b. P1PA03575≁ B0XX/6			
Rev.	DATE	DESIG	. CHECK	APPR.	DESCRIPTIO	DN						216	
DES	SIG. April	20,2009	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	ГГ		гауе	/383	
<Installation>

Follow the above procedure in reverse.

- Check that the springs of the RV Roller 1 are hooked on the Feed Holders before installing the RV Roller 1 onto the scanner.



- Check that the RV Guide 1 is not located above the RV Frame when installing the RV Guide 1.



									Name	fi-6800/fi-668PRF/fi-680PRE Maintenance Manual			
									Drawing No.	⁹ P1PA03575≁ B0XX/6			
Rev. DE	DATE SIG. April 2	DESIG 20, 2009	. CHECK K.Okada	APPR. CHECK	DESCRIPTIC A.Miyoshi	DN	APPR.	I.Fujioka	PF		Page	217	

6.13.34.2 RV Roller 2 (for receiving the Feed Roller 2 drive)

NOTICE

Refer to Section 4.2.79 for the part number and appearance of the RV Roller 2.

<Removal>

- (1) Open the ADF. (Refer to Section 8.1.3.)
- (2) Remove four screws A (circled) securing the RV Guide 1, and remove the RV Guide 1.



(3) Remove two bearing holders, and then the RV Roller 2.



									Name	fi-6800/fi-668P Maintenan	RF/f	i-680PRB Ianual	
									Drawing No.	^{ng} P1PA03575≁ B0XX/6			
Rev.	DATE	DESIG.	CHECK	APPR.	DESCRIPTIC	DN			DE		Dogo	218	
DE	SIG. April	20,2009	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	Pr		rage	/383	

<Installation>

Follow the above procedure in reverse.

- Check that the springs of the RV Roller 2 are hooked on the Bearing Holders before installing the RV Roller 2 onto the scanner.



- Check that the RV Guide 1 is not located above the RV Frame when installing the RV Guide 1.



									Name	fi-6800/fi-668P Maintenan	RF/f ce N	i-680PRB Ianual	
									Drawing No.	Drawing No. P1PA03575≁ B0XX/6			
Rev.	DATE	DESIG.	CHECK	APPR.	DESCRIPTIC	DN			DELLIMITED Page 219			219	
DE	SIG. April 2	0,2009	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	ГГ		гауе	/383	

6.13.34.3 RV Roller 2 (for receiving the Feed Roller 3 drive)

NOTICE

Refer to Section 4.2.79 for the part number and appearance of the RV Roller 2.

<Removal>

- (1) Open the ADF. (Refer to Section 8.1.3.)
- (2) Remove the LED Glass RV. (Refer to Section 6.13.9.)
- (3) Remove two bearing holders, and then the RV Roller 2.



									Name	fi-6800/fi-668P Maintenar	RF/f ice N	i-680PRB Ianual
									Drawing No.	P1PA03575≁ B0XX/6		
Rev.	DATE	DESIG.	CHECK	APPR.	DESCRIPTIO	DN			DE		Dogo	220 /
DE	SIG. April	20,2009	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	ГГ		гауе	/383

Springs must be hooked on the Bearing Holders.

6.13.34.4 RV Roller 2 (for receiving the Feed Roller 4 drive)



Refer to Section 4.2.79 for the part number and appearance of the RV Roller 2.

<Removal>

- (1) Remove the following parts.
 - RV Cover L (Refer to Section 6.8.3.)
 - RV Cover R (Refer to Section 6.8.4.)
 - RV Side Cover L (Refer to step (2) in Section 6.13.6)
 - RV Side Cover R (Refer to step (3) in Section 6.13.6.)
 - RV Guide 2 (Refer to steps (1) ~ (2) in Section 6.13.3.)
- (2) Remove two bearing holders, and then the RV Roller 2.

NOTICE

In order to avoid the RV Roller 2 from falls off, be sure to hold the RV Roller 2 from the bottom when removing it.



- - Check that the springs of the RV Roller 2 are hooked on the Bearing Holders before installing the RV Roller 2 onto the scanner.



										fi-6800/fi-668P Maintenar	RF/f ice N	i-680PRB Ianual
									Drawing No.	P1PA03575	5≁ E	80XX/6
Rev.	DATE	DESIG.	CHECK	APPR.	DESCRIPTIO	DN					Dogo	221 /
DE	SIG. April 2	20, 2009	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	ГГ		Fage	/383

6.13.34.5 RV Roller 3 (for receiving the Feed Roller 5 drive)



Refer to Section 4.2.80 for the part number and appearance of the RV Roller 3.

<Removal>

- (1) Open the ADF. (Refer to Section 8.1.3.)
- (2) Remove four screws A (circled) securing the RV Guide 2, and remove the RV Guide 2.



(3) Remove two tapping screws (circled) securing the RV Roller ASSY3, and remove the RV Roller ASSY3.



(4) Move the Pinch Shaft in the direction of the arrow slightly, and remove the RV Roller 3 from the RV Roller ASSY3.



<Installation>

Follow the above procedure in reverse.

									Name	fi-6800/fi-668P Maintenan	RF/f	i-680PRB Ianual
									Drawing No.	P1PA03575	5≁ E	30XX/6
Rev.	DATE	DESIG.	CHECK	APPR.	DESCRIPTIO	DN			DE		Dogo	222 /
DE	SIG. April 2	0,2009	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	ГГ		гауе	/383

6.13.34.6 RV Roller 3 (for receiving the Feed Roller 6 drive)

NOTICE

Refer to Section 4.2.80 for the part number and appearance of the RV Roller 3.

<Removal>

- (1) Remove the following parts.
 - Hopper Unit (Refer to Section 6.7.1.)
 - FX Cover L (Refer to Section 6.8.1.)
 - FX Cover R (Refer to Section 6.8.2.)
- (2) Remove the Damper Stoppers at right and left sides, and change the Gas Damper installation position to the fixed position for maintenance. (Refer to steps (2) ~ (3) in Section 6.13.21.)
- (3) Remove four screws A (circled) securing the RV Guide 2, and remove the RV Guide 2.



- (4) Remove the Gas Damper from the fixed position for maintenance, and open the Revolve Unit all the way to the maximum angle by supporting with another hand.
- (5) Remove a screw A securing the RV Roller ASSY3, and then the RV Roller ASSY3.



(6) Move the Pinch Shaft in the direction of the arrow slightly, and remove the RV Roller 3 from the RV Roller ASSY3.



<Installation>

Follow the above procedure in reverse.

									Name	fi-6800/fi-668P Maintenan	RF/f ce N	i-680PRB Ianual	
									Drawing No.	P1PA03575+ B0XX/6			
Rev.	DATE	DESIG.	CHECK	APPR.	DESCRIPTIO	N					Dogo	223	
DES	SIG. April 2	0,2009	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	ГГ		гауе	/383	

6.13.34.7 RV Roller 3 (for receiving the Exit Roller 1 drive)

NOTICE

Refer to Section 4.2.80 for the part number and appearance of the RV Roller 3.

<Removal>

- (1) Remove the Exit Guide U. (Refer to steps $(1) \sim (2)$ in Section 6.13.11.2.)
- (2) Remove two tapping screws (circled) securing the RV Roller ASSY3, and remove the RV Roller ASSY3.



(3) Move the Pinch Shaft in the direction of the arrow slightly, and remove the RV Roller 3 from the RV Roller ASSY3.



									Name	fi-6800/fi-668P Maintenan	RF/f	i-680PRB Ianual	
									Drawing No.	P1PA03575≁ B0XX/6			
Rev.	DATE	DESIG	. CHECK	APPR.	DESCRIPTIO	ON					Dogo	224 /	
DES	SIG. April	20,2009	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	ГГ		Fage	/383	

6.13.34.8 RV Roller 3 (for receiving the Exit Roller 2 drive)

NOTICE

Refer to Section 4.2.80 for the part number and appearance of the RV Roller 3.

<Removal>

- (1) Remove the following parts.
 - Top Cover (Refer to Section 6.8.7.)
 - [with fi-680PRB imprinter option installed] Top Cover IMP (Refer to Section 9.6.3.5.)
 - Exit Guide T (Refer to step (2) in Section 6.13.11.1.)
- (2) Remove two tapping screws (circled) securing the Plate, and then remove the Plate and EXIT-FG-SPRING2.



[When fi-680PRB imprinter option is installed] Remove three tapping screws (circled) securing the Plate, and then remove the Plate and EXIT-FG-SPRING2.





(3) Move the Pinch Shaft in the direction of the arrow slightly, and remove the RV Roller 3 from the RV Roller ASSY3.



<Installation>

Follow the above procedure in reverse.

									Name	fi-6800/fi-668P Maintenan	RF/f	i-680PRB Ianual	
									Drawing No.	P1PA03575≁ B0XX/6			
Rev.	DATE	DESIG.	CHECK	APPR.	DESCRIPTIC	DN					Dogo	225 /	
DES	SIG. April 2	20, 2009	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	ГГ		гауе	/383	

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Section 6.14.1.1

6.14 Replacing the Ultrasonic Sensor

6.14.1 Ultrasonic Sensor (US Sensor FX)

Refer to Section 4.2.43 for the part number and appearance of the US Sensor FX.

6.14.1.1 Ultrasonic Sensor (Left) (US Sensor FX)

<Removal>

- (1) Remove the Hopper Unit. (Refer to Section 6.7.1.)
- (2) Recline the CT Base. (Refer to steps $(2) \sim (4)$ in Section 6.10.1.)
- (3) Remove a screw A (circled) and a connector securing the FG Cable to remove the US Sensor FX (L).



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		E	

After replacing the US Sensor FX, perform "US Sensor adjustment". (Refer to Section 7.X.)

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6.14.1.2 Ultrasonic Sensor (Right) (US Sensor FX)

<Removal>

- (1) Remove the Hopper Unit. (Refer to Section 6.7.1.)
- (2) Recline the CT Base. (Refer to steps $(2) \sim (4)$ in Section 6.10.1.)
- (3) Remove the HB Unit. (Refer to Section 6.12.18.)
- (4) Remove a screw A (circled) and a connector securing the FG Cable to remove the US Sensor FX (R).



- After replacing the US Sensor FX, perform "US Sensor adjustment". (Refer to Section 7.X.)

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6.14.1.3 Ultrasonic Sensor (Middle) (US Sensor FX)

<Removal>

- (1) Remove the Hopper Unit. (Refer to Section 6.7.1.)
- (2) Recline the CT Base. (Refer to steps $(2) \sim (4)$ in Section 6.10.1.)
- (3) Remove the HB Unit. (Refer to Section 6.12.18.)
- (4) Remove the Brake Unit. (Refer to Section 6.12.20.)
- (5) Remove a screw A (circled) and a connector securing the FG Cable to remove the US Sensor FX (M).



- After replacing the US Sensor FX, perform "US Sensor adjustment". (Refer to Section 7.X.)

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6.14.2 Ultrasonic Sensor (US Sensor RV)

Refer to Section 4.2.41 for the part number and appearance of the US Sensor RV.

<Removal>

- (1) Remove the following parts.
 - RV Cover R (Refer to Section 6.8.4.)
 - RV Side Cover R (Refer to step (3) in Section 6.13.6.)
 - Separator Roller (Refer to steps (3) ~ (5) in Section 8.4.4.)
 - RV Roller 1 (Refer to steps (2) ~ (3) in Section 6.13.34.1.)
 - RV Sensor Unit (Refer to steps (2) ~ (3) in Section 6.13.12.)
- (2) Unlatch two tabs (circled) on the RV Sensor Unit, and then disconnect the connectors (one for each) on the US Sensor RV's.



<Installation>

Follow the above procedure in reverse.



After replacing the US Sensor RV, perform "US Sensor adjustment". (Refer to Chapter 7.)



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6.15 Replacing the Damper Section

6.15.1 Gas Damper

NOTICE

Refer to Section 4.2.63 for the part number and appearance of the Gas Damper.

<Removal>

- (1) Remove the following parts.
 - Hopper Unit (Refer to Section 6.7.1.)
 - FX Cover R (Refer to Section 6.8.2.)
 - RV Cover R (Refer to Section 6.8.4.)
- (2) Remove two screws D (circled) securing the Gas Damper to remove the Gas Damper.



<Installation>

Follow the above procedure in reve

Install the Gas Damper into the shaft on the Fixed Unit side with a screw D (circled), and then lower the Gas Damper to install it to the Revolve Unit shaft.



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6.15.2 Damper Kit 6.15.2.1 Damper Gear

NOTICE

- Refer to Section 4.2.64 for the part number and appearance of the Damper Gear.

- Replace the Damper Gears one by one to avoid dropping the ADF.

<Removal>

- (1) Remove the following parts.
 - Hopper Unit (Refer to Section 6.7.1.)
 - FX Cover L (Refer to Section 6.8.1.)
 - FX Cover R (Refer to Section 6.8.2.)
- (2) Change the Gas Damper installation position. (Refer to steps $(2) \sim (3)$ in Section 6.13.21.)
- (3) Lift up the ADF until the Damper Gear comes off, remove two screws A (circled), and then remove the Damper Gear.



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6.15.2.2 Damper ASSY-L

NOTICE

- Refer to Sections 4.2.64 for the part number and appearance of the Damper ASSY
- Replace the Damper ASSY's one by one to avoid dropping the ADF.

<Removal>

- (1) Remove the following parts.
 - Hopper Unit (Refer to Section 6.7.1.)
 - FX Cover L (Refer to Section 6.8.1.)
 - RV Cover L (Refer to Section 6.8.3.)
 - RV Side Cover L (Refer to step (2) in Section 6.13.21.)
- (2) Change the Gas Damper installation position. (Refer to steps $(2) \sim (3)$ in Section 6.13.21.)
- (3) Lift up the ADF until the Damper ASSY comes off, remove two screws A (circled), and then remove the Damper ASSY L.



<Installation>

Follow the above procedure in reverse.



When installing the Damper ASSY L, check the orientation (color) and rotation–free direction. The opposite side of the Gear: White, Rotation-free direction: Counterclockwise Be sure to return the Gas Damper to the original position.

6.15.2.3 Damper ASSY R

NOTICE

- Refer to Sections 4.2.64 for the part number and appearance of the Damper ASSY
- Replace the Damper ASSY's one by one to avoid dropping the ADF.

<Removal>

- (4) Remove the following parts.
 - Hopper Unit (Refer to Section 6.7.1
 - FX Cover L (Refer to Section 6.8.1.)
 - FX Cover R (Refer to Section 6.8.2.)
- (5) Change the Gas Damper installation position. (Refer to steps $(2) \sim (3)$ in Section 6.13.21.)
- (6) Lift up the ADF until the Damper ASSY comes off, remove two screws A (circled), and then remove the Damper ASSY R.



<Installation>

Follow the above procedure in reverse.



When installing the Damper ASSY R, check the orientation (color) and rotation–free direction. The opposite side of the Gear: Black, Rotation-free direction: Clockwise

Be sure to return the Gas Damper to the original position.

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Chapter 7 Adjustment/Settings

There are two methods of scanner maintenance (adjustments/settings);

"Maintenance mode (offline)": Built into the scanner

"Maintenance tool (online)":

The list below shows which maintenance is available in each mode.

NO	Adjustment/Test/Set Items	tings	Offline	Online (Maintenance tool)
1	Paper feeding test		리	요
2	Adjustment			
3	Motor test			
4	Sensor test			
5	Console test			
6	B_W change unit check			
7	EEPROM information			
8	Emulation mode switching			
9	Option information display			
10	Scanner information display			
11	Error log display			
12	Cancel periodic maintenance alarm			
13	Display/Clear the consumable counter			

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7.1 Offline Maintenance Mode

You can test the operation, adjust, and check the setting for the scanner with the built-in offline Maintenance mode.

7.1.1 Basic operation and maintenance mode items

7.1.1.1 Start up/Shut down

<Start up>

With the top cover open, press the Power button while pressing the Scan button to turn on the scanner. After "Initializing" screen, language selection menu appears. Select your language. "Maintenance" mode screen appears.

NOTICE

The selected language is effective until the maintenance menu is terminated (power is turned off). In the Maintenance mode, the all interfaces with the host become invalid.



<Shut down>

Press the Power button on the front for more than two seconds.

Press the "O" side of the main power switch on the back to turn off the scanner.

NOTICE

Do not turn off the scanner while EEPROM data is being written.



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7.1.1.2 Operation method on the menu

The list below shows the basic op	perations of the buttons on the Or	perator Panel in the Maintenance mode.
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No.	Button	Available	Operation
1	Menu	Yes	Returns to the Maintenance menu screen from each menu screen.
2	Enter	Yes	Executes the selected function.
3	Send to / Pause	No	=
4	Clear / Back	Yes	Returns to the previous screen.
5	II	Yes	Scrolls up the menu/log screen and selects the previous item. (Keep pressing the E button conducts the cyclic operation.)
6	٢	Yes	Scrolls up the menu/log screen and selects the next item. (Keep pressing the = button conducts the cyclic operation.)
7	Stop	Yes	Cancels the test and returns to the Maintenance menu screen.
8	Scan	Yes	Starts scanning at each adjustment item.
9	iMFF	No	=
10	Counter Reset	Yes	Clears the page counter.
11	Eject	No	=

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7.1.1.3 Maintenance Mode Items

This scanner has the following operation tests/ adjustments / setting items as Maintenance mode menus $(1) \sim (13)$. The list below shows all the items.

Main Menu	Sub Menu	Item	Refer to	Remarks
1: Test Run			7.1.2	
	1: Offset	1: ADF front side 2: ADF back side 3: ADF both sides		
2: Adjustment Menus	2: Magnification	1: Main-scan ADF front 2: Main-scan ADF back 3: Main-scan ADF (both) 4: Sub-scan Assist Roller 5: Sub-scan Feed Roller 6: Sub-scan Assist/Feed Roller	7.1.3	
	3: White Level	1: ADF front side 2: ADF back side 3: ADF both sides		
	4: Ultrasonic Sensors			
	5: Separation Force Adjustment			
3: Motor Test Menu	 Pick Feeding System Separator Hopper Stacker Background Changeover Pick Solenoid MTBF Running 	AIA	7.1.4	
4: Sensor Test Menu	1: Manual Ope. Menu	1: Ultrasonic 2: Cover 3: Paper Empty 4: Pick Position 5: Manual Feed 6: Stacker Position 7: Jam Sensor (L) 8: Jam Sensor (R)	7.1.5	
	2: Paper Feed Test			
	1: LCD	1: All ON 2: All OFF 3: H Pattern 4: Scroll display		
5: Ope. Panel Test Menu	2 LED	1: ON 2: Blink 3: OFF	7.1.6	
	3: Button			
	4: Alarm	1: High 2: Low 3: None		
6: Background Changeover Test			7.1.7	
7: EEPROM Operation	1: Backup 2: Restore 3: Edit 4: Default settings		7.1.8	
8: Emulation Mode			7.1.9	
9: Option Info			7.1.10	
10: Device Info			7.1.11	
11. EII0I LOg 12: Clear Periodic Mainte Alarm			7 1 12	
13: Show/Clear Counters	1		7.1.13	

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7.1.1.4 Test Sheets / Adjustment jigs

The list below shows the test charts which are required for each adjustment and test.

No	Description Part number	Specification/Size	Chart used for	Remarks
1	ADJ-CHART-KIT PA03575-D990	Test chart Standard for the following No.2, No.3 and No.4.		Includes the following sheets. No.2: ADJUST-CHART No.3: TEST CHART No.4: ADJUSTMENT SHEET
2	ADJUST-CHART	$\begin{array}{ c } \hline \leftarrow 297^{\circ} & 0.6 \text{ mm} \rightarrow \\ \hline \\ \hline \\ A3 \\ \hline \\ 420^{\circ} & 2.0 \text{ mm} \end{array}$	 Paper feeding test Offset adjustment Magnification adjustment White level adjustment Ultrasonic sensor 	A3 size
	PA93008-D497	White	adjustment - Sensor test (Ultrasonic sensor) (Paper feeding test)	
3	TEST CHART (W)	$\begin{array}{ c } \hline & \hline & & \hline \\ \hline & & & \hline \\ & & & & \hline \\ & & & &$	- White level adjustment	Glossy paper for adjusting white level
	PA03277-Y123	White Glossy paper		No significant dirt, scratch or wrinkles
4	ADJUSTMENT SHEET		- Illtrasonio sensor adjustment	For adjusting ultrasonic sensor
-	PA03296-Y990	$\begin{array}{c c} 209.3 \text{g/m}^2 \\ (56 \text{ lb.}) \\ \end{array}$		209.3g/m ² (56 lb.) Cardboard
	CLUTCH-ADJ-JIG	Master 1		Separation force
5	PA03575-D996	Master 2	- Separation force adjustment	adjustment jig (Master 1, Master 2)

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7.1.2 Paper Feeding Test

Paper feeding test is performed in the specified resolutions to check the paper feeding condition in this test item. The sheets for the scanner (refer to Section 1.2) are required for the paper feeding test. (A3-sized paper bundled with ADJ-CHART-KIT is acceptable.)

No	Procedure	Menu display Selected item/Display	Status transition	Remarks
1	Select "1. Test Run Menu" by pressing $\blacksquare / ?$ and press the Enter button.	Maintenance Menu 1: Test Run Menu © © © ©		
2	Select a resolution for Test Run by pressing \blacksquare/ \bigcirc and press the Enter button.	<1/6> Resolution 1: 600dpi 2: 400dpi 3: 300dpi 4: 200dpi	*-	Default: 4: 200dpi
3	Select the number of sheets to be scanned by pressing $\boxed{\square}/\square$ and press the Enter button. If the Imprinter option is not installed, go to No.6 $<5/5$ Test Run>.	<2/6> No. of sheets scanned 1: Single sheet only 2: Multiple sheets	▲┛ }∙┓	Default: 1: One sheet
4	Select imprinting side or no imprinting by pressing $\boxed{\blacksquare}/\begin{subarray}{c} \end{subarray}$ and press the Enter button. If you selected "1: None", go to No.6 <5/5 Test Run>.	<3/6> Print 1: None 2: Front Side 3: Back Side		Default: 1: None
5	Select print pattern by pressing the Enter button. Refer to *1 for the imprinting pattern specification.	 <4/6> Print Pattern 1: (horizontal) ABCDE 2: (horizontal) abcde 3: (horizontal) !"#\$% 4: (vertical) ABCDE 5: (vertical) abcde 6: (vertical) !"#\$% 		Default: 1: (horizontal)
6	Select whether to detect multifeed by pressing \overrightarrow{P} and press the Enter button. *2	5.6 Multifeed Detection1: Enable2: Disable	╉╝ ┝┑	Default: 1: Enable
7	Set the number of sheets selected on No.3 on the Hopper, and select "1: Yes" by pressing $/ ?$ and press the Enter button to start the paper feeding test. If you selected "2: No", the screen returns to the Maintenance Menu.	<6/6> Test Run Execute? 1: Yes 2: No		
8	Executes the paper feeding test. When the test proceeded successfully, the message on the right appears. Press the Enter button to return to the menu. If an error occurs during the test, an error message is displayed on the LCD. Refer to Chapter 5 "Troubleshooting" for the details of the errors.	Test Run Test in progress Test Run Test completed		

*1: Imprinting pattern specification (The last letter of the imprinting pattern is the selected imprinting pattern number.)

[1: (horizontal)], [4: (vertical)] \rightarrow ABCDEFGHIJKLMNOPQRSTUVWXYZ[¥]^_'00000000 [2: (horizontal)], [5: (vertical)] \rightarrow abcdefghijklmnopqrstuvwxyz{}}

[3: (horizontal)], [6: (vertical)] → !'#\$%&'()*+,-./0123456789:;<=>?@00000000

*2: When multifeed detection is enabled, the message which appears when multifeed occurs at paper feeding test differs from the message at normal scanning.

Message: [10月)●⑧1月国②匣(霂ル(水汗叶)! Eject 8月の⑦(名)斛ペラ嘖終晟叶(名)賍ヅ(一)ぺゐ]-TBD

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7.1.3 Adjustment (Offset / Magnification / White level / Ultrasonic)

The following adjustments are performed in this test item.

When the maintenance part that requires adjustments are replaced, be sure to perform the requisite adjustment.

The special test sheets described in Section 7.1.1.4 are required for the adjustments. Prepare them before adjustment. <**Adjustment item>**

- ☆! Offset
- **☆**! Magnification
- **☆**! White level
- ☆! Ultrasonic sensor
- ☆! Separation force adjustment

No	Procedure	Menu display Selected item/Display	Status transition	Refer to
1	Select "2. Adjustment Menus" by pressing $\boxed{\blacksquare}/ \begin{subarray}{c} \varphi \\ \hline{\blacksquare} \\ \hline{\blacksquare}/ \begin{subarray}{c} \varphi \\ \hline{\blacksquare} \\ \hline{\blacksquare}/ \begin{subarray}{c} \varphi \\ \hline{\blacksquare}/ \be$	Maintenance Menu (E) 2: Adjustment Menus (E) (E) Adjustment Menus 1: Offset 2: Magnification 3: White Level	₹ } ↓ ↓	
3	To perform "Offset adjustment", select the side to be adjusted by pressing $\boxed{\square}$, and press the Enter button.	4: Ultrasonic Sensors 5: Separation Force Offset 1: ADF front side 2: ADF back side		Section 7.1.3.1
4	Refer to Section 7.1.3.1 for detail.To perform "Magnification adjustment", select the scanning direction to be adjusted by pressing $\boxed{-/ \uparrow}$, and press the Enter button.Refer to Section 7.1.3.2 for detail.	3: ADF both sides Magnification 1: Mam-scan ADF front 2: Main-scan ADF back 3: Main-scan ADF (both) 4: Sub-scan Assist Roller 5: Sub-scan Feed Roller 6: Sub-scan Assist/Feed Roller		Section 7.1.3.2
5	To perform "White level adjustment", select the side to be adjusted by pressing $\boxed{\blacksquare}/\ensuremath{\varphi}$, and press the Enter button. Refer to Section 7.1.3.3 for detail.	White Level 1: ADF front side 2: ADF back side 3: ADF both sides		Section 7.1.3.3
6	To perform "Ultrasonic sensor adjustment", the message on the right appears. Refer to Section 7.1.3.4 for detail.	Ultrasonic Sensors Set dedicated chart and press the Scan button.		Section 7.1.3.4
7	To perform "Separation force adjustment", the message on the right appears. Refer to Section 7.1.3.5 for detail.	Separation Force Remove the Brake roller, and set the Separation force adjustment jig (Master 1)		Section 7.1.3.5

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7.1.3.1 Offset Adjustment

Calculates the offset value automatically so that ADF main/sub-scanning offset values become as follows:

Offset adjustment target valueMain scanning: The maximum offset is within 0° 24 dots (paper size is A6 or larger)Sub-scanning: The maximum offset is within 0° 33 dots (paper size is A6 or larger)

NOTICE

- The values above are just adjustment target values. Image specification is as follows:

 Main scanning: The smaller value between the leading edge and the trailing edge at left edge of the paper is 0~1.5mm.
 Sub-scanning: The smaller value between the left edge and the right edge at the leading edge of the paper is 0~2.0mm.
- 2. The special test sheet ADJUST-CHART described in No.2 in Section 7.1.1.4 is required for the adjustment. Prepare it before adjustment.

No	Procedure	Menu display Selected item/Display	Status transition	Remarks
1	Select the side to be adjusted by pressing \square and press the [Enter] button.	Offset 1: ADF front side 2: ADF back side 3: ADF both sides ADF (*)	}•_	The selected
2	ADJUST-CHART. Refer to No.2 in Section 7.1.1.4) on the Hopper, adjust the Side guides to the paper width, and then press the [Scan] button.	Set dedicated chart and press the Scan button.		item is displayed on *.
3	Scan operation starts and adjustment is performed. If an error occurs during adjustment, check [Offset adjustment - Error message].	ADF (*)		The selected item is displayed on *.
4	When the test proceeded successfully, the message on the right appears. To write the adjustment value into the EEPROM, press the [Enter] button. If the [Clear] button is pressed, the value is not written into the EEPROM, but the display returns to the Maintenance menu.	ADF (*) Ended successfully. Press Enter button to write to EEPROM Press Clear button to return to Main Menu without writing.	Clear Enter	The selected item is displayed on *.
5	The confirmation screen on the right appears: To write the value into the EEPROM, select [1: Yes] by pressing $\boxed{\bullet}/\begin{smallmatrix} \hline \end{smallmatrix}^2$ and press the [Enter] button. If [2: No] is selected, the display returns to the Maintenance menu.	ADF (*) Want to write? I: Yes 2: No	Yes No	The selected item is displayed on *.
6	The screen on the right appears: After writing the value into the EEPROM, the screen returns to the Maintenance Menu.	ADF (*) Writing	←	The selected item is displayed on *.

[Offset adjustment - Error message]

No	Error message	Occurrence Condition/Action
1	No paper. Load documents onto the Hopper.	<condition>The test chart is not set on the Hopper. <action>Load the paper on the Hopper and start adjustment.</action></condition>
2	Top edge detection error Image is shifted up. Check the position of the document set on the Hopper.	<pre><condition> - The paper may not be loaded on the Hopper</condition></pre>
3	Left edge detection error Image is shifted left. Check the position of the document set on the Hopper.	properly. - The specified test chart may not be used.
4	Right edge detection error Image is shifted right. Check the position of the document set on the Hopper.	<action></action>
5	●中⑦⑦確惧! 噴緂ネ劻ジョヅ(→ペゐ) 7月僅⑥⑦倉レ劔建〕や《州嘖緂ワ儺茹俗龍辛ヘョバメブヅゐ。	- Set the test chart on the Hopper properly, and start adjustment.
6	Offset top edge detection error Out of the available adjustment range. Confirm that you are using the adjustment sheet.	center of the hopper" in Section 8.1.6 "Loading the documents on the Hopper" for how to set the test chart
7	Offset left edge detection error Out of the available adjustment range. Confirm that you are using the adjustment sheet.	- Use the specified test chart (ADJUST-CHART. Refer to No.2 in Section 7.1.1.4).
8	Failed to write to EEPROM. Adjustment result will not be applied.	<condition>EEPROM is failed to be written. <action> Perform adjustment again and write the value into the EEPROM.</action></condition>

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7.1.3.2 Magnification Adjustment

Calculates the magnification correction value automatically so that ADF magnification values become as follows: Magnification correction value: Within 1.0% (Within ² 2.0% when start/stop scanning is performed.)

NOTICE

The special test sheet ADJUST-CHART described in No.2 in Section 7.1.1.4 is required for the adjustment. Prepare it before adjustment.

No	Procedure	Menu display Selected item/Display	Status transition	Remarks
1	Select the scanning direction to be adjusted by pressing $\blacksquare 7 \stackrel{\frown}{\Upsilon}$ and press the [Enter] button.	Magnification 1: Main-scan ADF front 2: Main-scan ADF back 3: Main-scan ADF (both) 4: Sub-scan Assist Roller 5: Sub-scan Feed Roller 6: Sub-scan Assist/Feed Roller		
2	Load the A3-sized paper (bundled with ADJUST-CHART. Refer to No.2 in Section 7.1.1.4) on the Hopper, adjust the Side guides to the paper width, and then press the [Scan] button. To perform the sub-scanning Feed roller, Sub-scanning Assist/Feed roller adjustment, 10 ADJUST-CHARTs are required.	* Set dedicated chart and press the Scan button.		The selected item is displayed on *.
3	Scan operation starts and adjustment is performed. If an error occurs during adjustment, check [Magnification adjustment - Error message].	* Adjusting	<u>Clear</u> Enter	The selected item is displayed on *.
4	When the test proceeded successfully, the message on the right appears. To write the adjustment value into the EEPROM, press the [Enter] button. If the [Clear] button is pressed, the value is not written into the EEPROM, but the display returns to the Maintenance menu.	* Ended successfully. Press Enter button to write to EEPROM. Press Clear button to return to Main Menu without writing.	Yes	The selected item is displayed on *.
5	The confirmation screen on the right appears: To write the value into the EEPROM, select [1: Yes] by pressing	* Want to write? 1. Yes 2. No	▲ No	The selected item is displayed on *.
6	The screen on the right appears: After writing the value into the EEPROM, the screen returns to the Maintenance Menu.	* Writing		The selected item is displayed on *.

[Magnification adjustment - Error message]

No	Error message	Occurrence Condition/Action
1	No paper. Load documents onto the Hopper.	<condition>The test chart is not set on the Hopper. <action>Load the paper on the Hopper and start adjustment.</action></condition>
2	Top edge detection error Image is shifted up. Check the position of the document set on the Hopper.	<pre><condition> - The paper may not be loaded on the Hopper</condition></pre>
3	Bottom edge detection error Image is shifted down. Check the position of the document set on the Hopper.	properly. - The specified test chart may not be used.
4	Skew The document slants. Check the position of the document set on the Hopper.	<action> - Set the test chart on the Hopper properly, and</action>
5	巒���⑦確惧!噴緂ネ劻ゾョゾ(-)ペゐ 7月���⑦倉レ衆����ペ休嘖緂ワ儺茹佲籠辛ヘョバメブヅゐ	start adjustment. Refer to "1. Setting the documents at the center
6	連栙 礭 悞 連栙嚊蔂ル翎奭(名)釃ドョヅ(−)ぺゐ	 documents on the Hopper" for how to set the test chart. Use the specified test chart (ADJUST-CHART. Refer to No.2 in Section 7.1.1.4).
7	<mark>嘖終信卦</mark> 連栙レ所蹝ル嘖緂ワ橾栖ネ信針へョヅ ○ ぺゐ	<condition>Adjustment sheet is insufficient. <action>Load the test chart on the Hopper and perform the adjustment.</action></condition>
8	Failed to write to EEPROM. Adjustment result will not be applied.	<condition>EEPROM is failed to be written. <action> Perform adjustment again and write the value into the EEPROM.</action></condition>

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7.1.3.3 White Level Adjustment

Calculates the white level correction value automatically so that ADF white level becomes as follows:

NOTICE

The special test sheet TEST-CHART described in No.3 in Section 7.1.1.4 is required for the adjustment. Prepare it before adjustment.

No	Procedure	Menu display	Status	Remarks
110	Troccuure	Selected item/Display	transition	Remarks
1	Select the scanning direction to be adjusted by pressing $\boxed{\blacksquare/ \uparrow}$ and press the [Enter] button.	White Level 1: ADF front side 2: ADF back side 3: ADF both sides	┣	
2	Load the test chart (Refer to No.3 TEST-CHART in Section 7.1.1.4.) on the Hopper, adjust the Side guides to the paper width, and then press the [Scan] button.	* Set dedicated chart and press the Scan button.		The selected item is displayed on *.
3	Scan operation starts and adjustment is performed. Scanning for adjustment is performed 5 times in total. If an error occurs during adjustment, check [White level adjustment - Error message].	* Adjusting X / 5		The selected item is displayed on *. X: Total number of adjustment
4	When the test proceeded successfully, the message on the right appears. To write the adjustment value into the EEPROM, press the [Enter] button. If the [Clear] button is pressed, the value is not written into the EEPROM, but the display returns to the Maintenance menu.	* Ended successfully. Press Enter button to write to EEPROM. Press Clear button to return to Main Menu without writing.	Clear Enter	The selected item is displayed on *.
5	The confirmation screen on the right appears: To write the value into the EEPROM, select [1: Yes] by pressing	* Want to write? 1: Yes 2: No	No	The selected item is displayed on *.
6	The screen on the right appears: After writing the value into the EEPROM, the screen returns to the Maintenance Menu.	Writing		The selected item is displayed on *.

[White level adjustment - Error message]

No	Error message	Occurrence Condition/Action
1	No paper. Load documents onto the Hopper.	<condition>The test chart is not set on the Hopper. <action>Load the paper on the Hopper and start adjustment.</action></condition>
2	Time-out Could not finish scanning required for the adjustment on time.	<condition> The paper may not be loaded on the Hopper properly. The specified test chart may not be used.</condition>
3	Abnormal White level There is more than 1% of low output pixels. Confirm that you are using the adjustment sheet.	 <action></action> Set the test chart on the Hopper properly, and start adjustment. Set the test chart horizontally, adjust the Side guides to the
4	連棒翎奭確惧 連棒嚊蔂ル翎奭阁釃ドョヅ⊖ぺゐ 連棒磆ワ嘖緓阁兮磆ヘョヅ休ピラ阁籠辛ヘョバメブ ヅゐ	paper width.Use the specified test chart (TEST-CHART. Refer to No.3 in Section 7.1.1.4).
5	Failed to write to EEPROM. Adjustment result will not be applied.	<condition>EEPROM is failed to be written. <action> Perform adjustment again and write the value into the EEPROM.</action></condition>

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7.1.3.4 Ultrasonic Sensor Adjustment

Corrects the Ultrasonic sensor output to the optimal value in order to improve the multifeed detection accuracy for the specified media.

The special test sheet ADJUSTMENT SHEET described in No.4 in Section 7.1.1.4 is required for the adjustment. Prepare it before adjustment.

No	Procedure	Menu display	Status	Remarks
		Selected item/Display	transition	
1	The screen on the right appears. Load the adjustment sheet (Refer to No.4 ADJUSTMENT SHEET in Section 7.1.1.4.) on the Hopper, adjust the Side guides to the paper width, and then press the [Scan] button.	Ultrasonic Sensors Set dedicated chart, and press the Scan button.		
2	Scan operation starts and adjustment is performed. If an error occurs during adjustment, check [Ultrasonic sensor adjustment - Error message].	Ultrasonic Sensors Adjusting		
3	When the test proceeded successfully, the message on the right appears. To write the adjustment value into the EEPROM, press the [Enter] button. If the [Clear] button is pressed, the value is not written into the EEPROM, but the display returns to the Maintenance menu.	Ultrasonic Sensors Ended successfully. Press Enter button to write to EEPROM. Press Clear button to return to Main Menu without writing.	<u>Clear</u> Enter	
4	The confirmation screen on the right appears:To write the value into the EEPROM, select [1:Yes] by pressing	Ultrasonic Sensors Want to write? 1: Yes 2: No	Yes No	
5	The screen on the right appears: After writing the value into the EEPROM, the screen returns to the Maintenance Menu.	Ultrasonic Sensors Writing		

[Ultrasonic sensor adjustment - Error message]

No	Error message	Occurrence Condition/Action
1	Ultrasonic Sensor error	<condition> The paper may not be loaded on the Hopper properly. The specified test chart may not be used. <action> Set the test chart on the Hopper properly, and start adjustment. Set the test chart horizontally, adjust the Side guides to the paper width. Use the specified test chart (ADJUSTMENT SHEET. Refer to No.4 in Section 7.1.1.4). Perform the sensor test (Section 7.15.1: Ultrasonic Sensor) and check the sensor status. </action></condition>
2	Failed to write to EEPROM. Adjustment result will not be applied.	<condition>EEPROM is failed to be written. <action> Perform adjustment again and write the value into the EEPROM.</action></condition>
3	噴 縦ルへ	<condition>The ADJUSTMENT SHEET may not be set. <action> Lad the ADJUSTMENT SHEET and perform the adjustment.</action></condition>

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7.1.3.5 Separation Force Adjustment

Use the Separation Force Adjustment Jigs (Master 1 / Master 2) in order to adjust the proper separation force of the Brake roller.

NOTICE

The special tool Separation Force Adjustment Jigs described in No.5 in Section 7.1.1.4 is required for the adjustment. Prepare them before adjustment.



No	Procedure	Menu display	Status	Romarks
110	Troccuare	Selected item/Display	transition	Kennai KS
1	The confirmation screen on the right appears. Open the Brake roller cover, and remove the Brake roller. (Refer to Section XXX.) Install the Separation force adjustment jig (Master 1) and then press the Scan button.	 <1/3> Separation Force 2月②⑦①③⑦⑦(名)窶へわ竈 3) ④⑦⑦⑦(名)窶へわ竈 3) ④⑦⑦⑦(名)窶へわ竈 4) ④⑦⑦(金)(金)(金)(金)(金)(金)(金)(金)(金)(金)(金)(金)(金)(
2	Separation force adjustment is performed with the Separation force adjustment jig (Master 1). If an error occurs during adjustment, check the [Separation force adjustment error message].	Separation Force Adjusting	↓	
3	If the adjustment (with Master 1) has been performed properly, the screen on the right appears. Open the Brake roller cover, remove the Separation force adjustment jig (Master 1), install the <u>Separation force adjustment jig (Master 2)</u> , and then press the <u>Scan</u> button.	2/3 Separation Force (回) (回) (回) (回) (回) (回) (回) (回) (回) (回) (回) (回) (回) (回) (回) (回) (回) (回) (回) (回) (回) (回) (回) (回) (回) (回) (回) (回) (回) (回) (回) (回) (回) (回) (回) (回) (回) (回) (回) (回) (回) (回) (回) (回) (回) (回) (回) (回) (回) (回) (回) (回) (回) (回) (回) (回) (回) (回) (回) (回) (回) (回) (回) (回) (回) (回) (回) (回) (回) (回) (回) (回) (回) (回) (回)		
4	Separation force adjustment is performed with the Separation force adjustment jig (Master 2). If an error occurs during adjustment, check the [Separation force adjustment error message].	Separation Force Adjusting (2)		
5	The following screen appears. Press the ??????, to return to the menu.	<2/3> Separation Force 連棒レ擦咩へ一へムみ©④ 必郷螱連栙灊卬(10)●● 2) (名)宴へ C C C C	•	

[Separation force adjustment - Error message]

No	Error message	Occurrence Condition/Action
1	連権レ対柵へ──へムゐ	
2	■建砂郷駐連栙灊印ネ稛建正ブはヨヅ──ボ㈱ゐ	
3	⑧健砂郷 螱連栙 満印ワ日 錆鶏惱レ辱(水)ネッ(水)−→ペゐ	
4	■建砂郷螱連栙灊印ネ寓榴ブ\金ョゾ→ボ(樹み)	

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7.1.4 Motor Test

The following motor operation tests are performed in this test item.

Refer to [Motor operating position] for detail of motor operation position.

No	Procedure	Menu display Selected item/Display	Status transition	Remarks
	Select "2: Motor test manu" from the Maintenance	Maintenance Menu	unification.	
	menu by pressing \mathbf{r}/\mathbf{Q} and press the Enter			
1	button	3: Motor Test Menu		
1	button.	P. Wotor rest Wend		
		<u>e</u>		
	Select the item to be tested by proving	Motor Test Menu		
	Select the item to be tested by pressing $\frac{1}{2}$ and	1. Pick	—	
	press the Enter button.	2. Feeding		
		3: Separator		
2		4: Hopper		
		5: Stacker	∣ 111 1	
		6: Background Changeover	∣ 111h	
		7: Pick Solenoid	│	
		8: MTBF Running		
	The screen on the right appears and the selected	[Selected test item] (*2)		
	motor starts rotating.	Test in progress		
	Check the following at each motor test.			
			וווווון, ר	
	Check the Pick roller rotating operation.		│	
	♥2: Feeding		1 IIIIII	
	(EVIT collers) in the Top access rotate Charle the			
	(EATI Toners) in the Top cover Totate. Check the			
	operation with the ADF and Top cover opened (*1)			
	Separator			
	The separator roller rotates		<	
	Check the operation with the ADF closed and the			
	separator roller operation with the ADF opened (*1).	•	│ ├┥ ─┘	
	愛4: Hopper			
	Hopper moves up and down.			
3	Check the operation.			
	愛5: Stacker		│ ├┥──┘ 	
	The stacker moves up and down.			
	Check the operation.			
	♥6: Background changeover		│ ┝ ┥──┘	
	The background changeover operates.			
	Check the operation with the ADF closed and the			
	background changeover operation with the ADF			
	opened (*).			
	愛7: Pick solenoid			
	Check that the Hopper moves to the upper position		ן ר	
	and the Pick roller moves up and down in small		│ ┝ ┥───┘│	
	Check the operation			
	₩ 81 MTBF running		ן ן	
	The motors in $\#1 \sim 7$ above move		│ ├ ┥───┘	(*3)
	Check the opearation.			
	Press the Stop button to terminate the test	[Selected test item] (*2)		
4	Press the Clear button to return to the menu.	Test completed		

(*1): When the ADF and Top cover are opened, turn ON the cover switch with a stick of other than metal.

- (*2): The selected test item selected on the Motor test menu is displayed.
- (*3): Start MTBF running test after the scanner initial operation is complete.

Do NOT open/close the ADF and TOP cover during MTBF running test.

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7.1.5 Sensor Test

The following sensor operation tests are performed by "manual operation" or "paper feeding test" in this test item.

A3-sized ADJUST-CHARTs (refer to No.2 in Section 7.1.1.4) are required for the sensor test. Prepare them before adjustment.

The following sensors are tested in this test item.





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				Section 7.1.5
Na	Dressedone	Menu display	Status	Defen 4a
INO	Procedure	Selected item/Display	transition	Keler to
	Select "4: Sensor test menu" by pressing ■ /♀	Maintenance Menu		
	and press the Enter button.	E	←	
1	* <u> </u>	4: Sensor Test Menu		
		E		
		E	┥	
	The screen on the right is displayed.	Sensor Test Menu	4 -1	
2		1: Manual Ope. Menu	▲	
		2: Paper Feed Test		
	Select the item to be tested by pressing $\blacksquare/ 2$ and	Manual Ope. Menu		
	press the Enter button.	1: Ultrasonic		Section 7.1.5.1
		2: Cover		Section 7.1.5.2
		3: Paper Empty		Section 7.1.5.3
3		4: Pick Position		Section 7.1.5.4
		5: Manual Feed		Section 7.1.5.5
		6: Stacker Position		Section 7.1.5.6
		7: Jam Sensor (L)	\rightarrow	Section 7.1.5.7
		8: Jam Sensor (R)		Section 7.1.5.7
	Pressing the Stop button terminates the test.	Paper Feed Test		
		Load documents and press		
4		the Scan button.		
-				Section 7.1.5.9

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7.1.5.1 Ultrasonic Sensor

No	Procedure	Menu display Selected item/Display	Status transition	Remarks
1	The confirmation screen on the right appears. Press the Enter button.	Ultrasonic Sensor Check that [OFF] is displayed on the panel when two sheets are loaded.	•	
2	The screen on the right appears. When there is no paper on the ADF feeding path, check that each status indicates [OFF]. If the status is [ON] when no paper is loaded, the Ultrasonic sensor adjustment or the sensor itself may be defect.	Ultrasonic Sensor Left: OFF Middle: OFF Right: OFF	•	
3	Open the ADF, and <u>load one sheet</u> on the Ultrasonic sensor. Load a sheet. With one sheet loaded, check that each status on the LCD panel displays [OFF] when the ADF is closed. If the status is [ON] when there is one sheet on the ADF feeding path, the Ultrasonic sensor adjustment or the sensor itself may be defect. Open the ADF, and <u>load two sheets in piles</u> on the Ultrasonic sensor. Load two sheets in piles. With two sheets loaded in piles, check that each status on the LCD panel displays [ON] when the ADF is closed. If the status is [OFF] when there are two sheets in piles on the LCD panel displays [ON] when the ADF is closed. If the status is [OFF] when there are two sheets in piles on the ADF feeding path, the Ultrasonic sensor adjustment or the sensor itself may be defect. Pressing the Stop button terminates the test.	Ultrasonic Sensor Left: OFF Right: OFF Left: ON Middle: ON Right: ON		
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7.1.5.2 Cover Sensor

No	Procedure	Menu display Selected item/Display	Status transition	Remarks
1	The confirmation screen on the right appears. Press the Enter button.	Cover Make sure [ON] is shown on the panel while the cover is open.	•	
2	The screen on the right appears. Check that the status is [OFF] with the ADF closed. [ADF] and [TOP cover] are closed. If the status is [ON] when the ADF and Top cover are closed, the ADF open switch or Top cover switch may be defect.	<u>OFF</u>		
3	Open and close the ADF and Top cover. Check that the status becomes [ON] when the ADF or Top cover is open. [ADF] open [ADF] open [Top cover] open If the status is [OFF] when the ADF and Top cover are open, the ADF open switch or Top cover switch may be defect.	ON		
4	Pressing the Stop button terminates the test.			

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7.1.5.3 Paper Empty Sensor

No	Procedure	Menu display Selected item/Display	Status transition	Remarks
1	The confirmation screen on the right appears. Press the Enter button.	Paper Empty Make sure [ON] is shown on the panel while the Paper-Empty Sensors are held down.	•	
2	The screen on the right appears. Check that the status is [OFF] while the Empty sensor is not pressed (no paper is on the Empty sensor).	Paper Empty OFF		
3	If the status is [ON] while the Empty sensor is not pressed (no paper is on the Empty sensor), the Empty sensor may be defect. Load paper on the Hopper. Check that the status becomes [ON] when the Empty sensor is pressed (paper is loaded on the Empty sensor). Paper If the status is [OFF] while the Empty sensor is pressed (paper is loaded on the Empty sensor), the	Paper Empty ON		
4	Pressing the Stop button terminates the test.			

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7.1.5.4 Pick Position Sensor

T P	The confirmation screen on the right appears.			
1	Press the Enter button.	Pick Position Make sure [ON] is shown on the panel when the Pick Position Unit is raised.		
2	The screen on the right appears. Check that the status is [OFF] while the Pick roller unit is not raised.	Pick position sensor OFF	Ŧ	
I: ra	f the status is [ON] while the Pick roller is not raised, the Pick position sensor may be defect.			
8 7 3	Raise the Pick roller section. Check that the status becomes [ON] when the Pick oller section is raised. Pick roller	Pick position sensor ON		
In the second se	If the status is [OFF] while the Pick roller is raised, he Pick position sensor may be defect. Pressing the Stop button terminates the test.			

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7.1.5.5 Manual Feed Sensor

Note Prick roller unit j fixed Manual Feed 3 Note: When the fields roller unit is fixed, the Hopfer mites is (OFF) while the Pick, roller unit is raised Manual Feed 4 Pressing the Size) Pressing the Size)	No	Procedure	Menu display	Status	Domonka
1 The confirmation screen on the right appears. Press the Entred button. Make sure (ON) is shown on the pure (Vhile the Pick Roller Unit is raised. 2 The screen on the right appears. Check that the status is (OFF) while the Pick roller unit is not raised. Manual Feed OFF 2 The status is (ON) while the Pick roller unit is not raised. Pick roller unit is not raised, the Manual Feed sensor may be defect. 3 Raise the Pick roller unit unit is not raised, the Manual Feed sensor may be defect. Manual Feed Note: 3 Note: When the Pick roller unit is fixed, the Hopper moves to upper position. Be careful to to get your finger pinched. Manual Feed 4 Pressing the EQD button terminates the test. Image provide the status is (OFF) while the Pick roller unit is raised, the Manual Feed sensor may be defect.	INU	Flocedure	Selected item/Display	transition	Kelliarks
2 The screen on the right appears. Check that the status is [OFF] while the Pick roller unit is not raised. 2 Image: Check that the status is [OFF] while the Pick roller unit is not raised, the Manual feed sensor may be defect. Raise the Pick roller unit unit the click sound is heard and fix it. Check that the status is [ON] while the Pick roller unit is not raised, the Manual feed sensor may be defect. 3 Image: Check that the status is [ON] while the Pick roller unit is raised (single feeding mode). 3 Image: Check that the status is [ON] while the Pick roller unit is fixed, the Hopper unit is raised to get your finger pinched. 1f the status is [OFF] while the Pick roller unit is raised, the Manual feed sensor may be defect. 7 If the status is 10FF] while the Pick roller unit is raised, the Manual feed sensor may be defect. 8 If the status is 10FF] while the Pick roller unit is raised, the Manual feed sensor may be defect. 9 Rescue the Bick roller unit is fixed, the Hopper unity of the pick roller unit is raised, the Manual feed sensor may be defect. 4 Pressing the Kingle button terminates the test.	1	The confirmation screen on the right appears. Press the Enter button.	Manual Feed Make sure [ON] is shown on the panel while the Pick Roller Unit is raised.		
3 Manual Feed 3 Image: Constraint of the status is a status is a status is constraint of the status is	2	The screen on the right appears. Check that the status is [OFF] while the Pick roller unit is not raised.	Manual Feed OFF		
4 Pressing the Stop button terminates the test.	3	Raise the Pick roller unit until the click sound is heard and fix it. Check that the status is [ON] while the Pick roller unit is raised (single feeding mode).	Manual Feed ON		
	4	Pressing the Stop button terminates the test.			

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7.1.5.6 Stacker Position Sensor

No	Procedure	Menu display Selected item/Display	Status transition	Remarks
1	The confirmation screen on the right appears. Press the Enter button.	Stacker Position Make sure [ON] is shown on the panel while the Stacker Position Sensors are blocked	•	
2	The screen on the right appears. Check that the status is [OFF] while the Stacker position sensor is not blocked.	Stacker Position OFF		
3	Block the Stacker position sensor with a hand. Check that the status becomes [ON] when the Stacker position sensor is blocked.	Stacker Position ON		
4	Pressing the Stop button terminates the test.			

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7.1.5.7 Jam Sensor (L) / Jam Sensor (R)

No	Procedure	Menu display Selected item/Display	Status transition	Remarks
1	Select the jam sensor position to be checked. Left jam sensor: Select [8: Jam sensor (L)]. Right jam sensor: Select [9: Jam sensor (R)].	Manual Ope. Menu 8: Jam Sensor (L) 9: Jam Sensor (R)		
2	The confirmation screen on the right appears. Press the Enter button.	Jam Sensor (*) Make sure [ON] is shown on the panel while the Jam Sensor (*) is blocked.		* indicates the selected sensor.
3	The screen on the right appears. Check that the status is [OFF] while the Jam sensor is not blocked by paper.	Jam Sensor (*) OFF		* indicates the selected sensor (L/R).
4	If the status is [ON] while the Jam sensor is not blocked, the Jam sensor section may be defect. Open the ADF, load paper on the sensor position (left/right) that is selected on the menu, and close the ADF. Check that the status becomes [ON] when the Jam sensor is blocked by paper. [Jam sensor (L)] Load paper by aligning with left edge (where the Jam sensor (L) is blocked), and close the ADF. [Jam sensor (R)] [Jam sensor (R)] Load paper by aligning with right edge (where the Jam sensor (R) is blocked), and close the ADF. Load paper by aligning with right edge (where the Jam sensor (R) is blocked), and close the ADF. If the status is [OFF] while the Jam sensor is blocked, the Jam sensor section may be defect. Open the ADF, remove any paper on the ADF, and	Jam Sensor (*) ON		* indicates the selected sensor (L/R).
5	press the Stop button to terminate the test.			(1)

(*1): Note After Jam sensors (Left)/(Right) test, be sure to remove paper before pressing the Stop button. Otherwise, the initial operation will start which results in paper jam in the ADF.

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7.1.5.8 Feeding Path Test

No	Procedure	Menu display Selected item/Display	Status transition	Remarks
1	The confirmation screen on the right appears. Load paper on the Hopper and press the Scan button.	Paper Feed test Set dedicated chart and press the Scan button.	•	
2	Scanning starts and the paper starts to be fed.	Paper Feed Test Test in progress	← ←	
3	 The contents as shown on the right appears and the confirmation [RESULT] of each sensor operation. ♥[Passed]: The target sensor operates correctly. ♥[NG]: The target sensor may be abnormal. 	Paper Feed TestPick Encoder-Left: Passed-Right: PassedBreak Encoder: PassedSepa Encoder: PassedPick-Left: Passed-Right: PassedSkew-Left: PassedSkew-Left: PassedFeed Roller: PassedFeed Roller: PassedRead Top: PassedFeed Top: PassedFeed Top: PassedFeed Top: PassedExit: PassedStacker Bottom: PassedStacker Bottom: PassedPick Position: PassedSensor test end.		
4	Pressing the Stop button terminates the test.			
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7.1.6 Operator Panel Test Operator panel test procedure is described in this section.

No	Procedure	Menu display	Status	Remarks
	Select "5 One Densi Test Mene" he proving	Selected item/Display	transition	
	Select 5. Ope. Parel Test Menu by pressing \blacksquare	C		
1		5: Ope. Panel Test Menu	▲]	
	Select an item to be tested and press the Enter	Ope. Panel Test Menu	╡╺╾┛	
2	button.	2: LED	▲	
		3: Button		
	The items to be selected appear as shown on the	LCD	╡┥┼┼┤	
	right. Select the item to be confirmed by pressing $\overline{\bullet}/\underline{\bigcirc}$	1: All ON 2: All OFF		
	button and press the Enter button. Check the	3: H Pattern		
	following items:	4: Scroll display		
	[1: All ON]: The liquid crystal LCD lights on. Make sure that entire liquid crystal LCD lights on			
	without exception.			
3	[2: All OFF]: The liquid crystal LCD lights off. Make sure that entire liquid crystal LCD lights off		•	
	without exception.			
	[3: H Pattern]: [H] pattern is displayed on the entire LCD. Make sure that the whole surface displays the			
	pattern correctly. [4: Seroll display]: Characters are seroll displayed			
	from right to left on the LCD. Make sure that the			
	characters are scroll-displayed correctly.			
	The items to be selected appear as shown on the	LED		
	right.	1: ON		
	button and press the Enter button. Check the	3: OFF		
	following items:			
4	[1: ON]: The Check lamp (orange) and power			
	[2: Blink]: The Check lamp (orange) and power			
	button LED (blue) blink.		←	
	button LED (blue) go off.			
	Pressing the Clear button returns to the menu.			* Drogging the
	Pressing each button or power button on the	고 수 고 고 ■ 고		power button
	Operator panel changes the LCD display from $[-1]$	<u>-</u>		for more than
5	to [<i>²²²</i>] (reverse display). Pressing the power button highlights [pow].	<u>오 오</u>		turns off the
	Check that each button functions correctly.			power even
	Pressing the Stop button for more than two seconds returns to the Operator panel test menu.			during the test.
	The items to be selected appear as shown on the	Alarm		
1	right. Select the item to be confirmed by pressing $\Box/2$	1: High 2: Low		
1	button and press the Enter button. Check the	3: None		
6	following items:			
	[1: High]: Sounds with a large volume. [2: Low]: Sounds with a small volume.			
	[3: None]: No buzzer sound			
	Pressing the Clear button returns to the menu.			

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7.1.7 Lamp Test

Lamp test procedure is described in this section.

No	Procedure	Menu display	Status	Remarks
110		Selected item/Display	transition	
1	Select [6: Background changeover test] by pressing $\boxed{\blacksquare}/ ?$ button and press the Enter button.	Maintenance Menu C 6: Lamp Test C (C) (C)	•	
2	The screen on the right appears. Following the displayed instruction, open the ADF, and press the Scan button while pressing the ADF open switch with a stick other than metal.	Lamp Test Open the ADF Cover. Press the Scan button while pushing the ADF Cover Sensor with a non-metallic stick.		
3	The message on the right appears and the lamp blinks. Check that the "lamp for front side scanning and "lamp for backside scanning" are blinking. Lamp for front side scanning Lamp for front side scanning	Lamp Test Test in progress		
4	Pressing the Stop button terminates the test.	Background Changeover Test Test completed		

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7.1.8 Thermistor Test

Thermistor test procedure is described in this section.

No	Procedure	Menu display Selected item/Display	Status transition	Remarks
1	Select [7: Thermistor] by pressing $\blacksquare / 9$ button and press the Enter button.	Maintenance Menu E 7: Thermistor Test E E		
2	The screen on the right appears. Select the thermistor item to be confirmed by pressing $\boxed{\blacksquare}/ \xrightarrow{\frown}$ button and check that the temperature at each position is within the allowable range. Allowable range $[1 \sim 90 \ ^{\circ}C]$ - ADF front CCD temperature - ADF back CCD temperature Allowable range $[1 \sim 65 \ ^{\circ}C]$ - ADF (MD PCA) ambient temperature - ADF (US Sensor FX) ambient temperature - ADF (CSL PCA) ambient temperature	ADF front CCD temperature ** °C / ** °F ADF back CCD temperature ** °C / ** °F ADF (MD PCA) ambient temperature ** °C / ** °F ADF (US Sensor FX) ambient temperature ** °C / ** °F ADF (US Sensor FX) ambient temperature ** °C / ** °F ADF (US Sensor FX) ambient temperature		
	range, temperature is highlighted.	** °C / ** °F)	
3	Pressing the Stop button terminates the test.			

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7.1.9 Backing up / Restoring EEPROM Information

This scanner has a function to save the EEPROM data from the Operator panel section (CSL PCA) to CT PCA. Before replacing the CSL PCA, be sure to "back up EEPROM". And "restore EEPROM" after replacing the CSL PCA.

NOTICE

- 1. Back up the EEPROM information only when the CSL PCA is broken.
- Be sure to prepare a new CSL PCA before saving the EEPROM to CT PCA.
- 2. The CSL PCA that does not have EEPROM data any more becomes unavailable.
- (Once the EEPROM data is backed up in the CT PCA, the data to prohibit the use of the current CSL PCA is written in order to avoid the reuse of it. If the power is supplied when the CSL PCA that has no EEPROM data any more is installed, an error message is displayed on the Operator panel. Refer to "E6:D3 Operator Panel error" in Section 5.1.3.4 for detail.)
- 3. If the EEPROM information cannot be backed up/restored, the scanner setting becomes the factory default (initial setting) because scanner's unique settings cannot be taken over. Ask your customer to configure the scanner setting again.

No	Droooduro	Menu display	Status	Domonica
INO	rrocedure	Selected item/Display	transition	Kelliarks
	Select "8. EEPROM Operation" by pressing ■ /♀	Maintenance Menu		
	and press the Enter button.			
I		8: EEPROM Operation		
		e		
	Select an item to perform in the "EEPROM	EEPROM Operation	↓	
2	operation" by pressing $\blacksquare/\diamondsuit$ and press the Enter	1: Backup	▲]	
2	button. Select [1: Backup] if you want to back up FEPROM	3: Browse	▲ ╋	
	Select [2: Restore] if you want to restore EEPROM.	4: Default Setting		
	If [Backup] is selected, the screen on the right	Backup		
	appears.	1: Run 2: Canaci		
	To execute Backup EEPROM,			
3	press [1: Run] by pressing $\blacksquare/ 2$ and press the			
5	Enter button.			
	If [2: Cancel] is selected. EEPROM is not saved and			
	the screen returns to [EEPROM Operation] selection		┥╺━┛║	
	menu.	Pastara		
	appears	1. Run		
		2: Cancel		
	To execute [Restore EEPROM],			
4	select [1: Run] by pressing \Box / Υ and press the			
	If [2: Cancel] is selected. EEPROM is not restored			
	and the screen returns to [EEPROM operation]			
	selection menu.	D		
	и робот is selected, the screen on the right appears.	Address: XXX		
5	You can refer to the value for the [Address] selected	Value: XX		
	by pressing $\blacksquare / ♀$.			
	If [Default Settings] is selected, the screen on the	Default Settings		
	right appears.	1: Yes		
6	Select [1: Yes] by pressing $\blacksquare/9$ and press the	2: No		
0	Enter button to write [Default Settings]*1 in the			
	EEPROM.			
	maintenance menu.			
*1	· Factory default setting value excludes the following:	1	1	

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7.1.9.1 Backing up EEPROM Information by Scanner Operation

This section describes how to back up the EEPROM information without the Operator panel operation due to defect CSL PCA.

- NOTICE

1. Back up EEPROM information in this procedure only when normal EEPROM backup procedure on the Operator Panel is

- not available due to defect CSL PCA.
- 2. The CSL PCA that does not have EEPROM (Once the EEPROM data is backed up in th written in order to avoid the reuse of it. If th
- is installed, an error message is displayed on

available to avoid the reuse of it. ata to prohibit the use of the current CSL PCA is the CSL PCA that has no EEPROM data any more e scanner does not start up properly.)

- --3. Be sure to prepare a new CSL-PCA before starting this procedure. --
 - (1) Turn off the power.
 - (2) Fix the Pick Unit to the single feeding position (by lifting the Pick Roller Unit) while the Top cover is opened.
 - (3) Press the power button to turn on while the Hopper Empty Sensor is raised (no paper is set on the Hopper).
 - (4) If the transition has been succeeded, the LCD displays the following [Backup] window.
 - (5) Return the Pick Unit from single feeding position to the normal position.
 - (6) Move the Pick Unit from the normal position to single feeding position again, and repeat this action twice.
 - (7) Closing the Top cover displays the following window on the LCD.

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7.1.10 Emulation Mode Switching

No	Procedure	Menu display Selected item/Display	Status transition	Remarks
1	Select "9. Emulation Mode" by pressing $\blacksquare / 9$ and press the Enter button.	Maintenance Menu C 9: Emulation Mode C C	Ţ	
2	Select the scanner to perform emulation by pressing $\boxed{\blacksquare}/ ?$ and press the Enter button.	Emulation Mode 1: fi-6800 2: fi-5900C 3: fi-4860C2		Initial setting fi-6800
3	The screen on the right appears. To select a model for emulation mode, select [1: Yes] by pressing <u></u> , ♀ and press the Enter button. If [2: No] is selected, the screen returns to the maintenance menu.	Emulation Mode Configure? 1: Yes 2: No	L	

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7.1.11 Option Information Display

No	Procedure	Menu display Selected item/Display	Status transition	Remarks
1	Select "10. Option Info" by pressing $\boxed{\blacksquare}/♀$ and press the Enter button.	Maintenance Menu © 10: Option Info © ©	↓	
2	The equipped option information is displayed. If the imprinter for front side/backside is equipped, the equipped option side indicates [Yes]. If no imprinter is installed, [No] is displayed.	Option Info Imprinter Front Side: *** Back Side: ***	₊	

7.1.12 Device Information Display

No	Procedure	Menu display Selected item/Display	Status transition	Remarks
1	Select "11. Device Info" by pressing \mathbf{E}/\mathbf{P} and press the Enter button.	Maintenance Menu © 11: Device Info © ©	F	
2	 The scanner information on the right appears. The following information can be confirmed on the scanner information display. Start Date to Use Total sheets scanned Firmware Version CGA Firmware Version Imprinter Firmware Version (only when installed) Serial No. 	Device Info Start Date to Use YYYY→ MM→ DD Total sheets scanned XXXX Firmware Version SDC: XXXX MDC: XXXX CGA: XXXX IMPR: XXXX Serial No. ******	┙	
7.1.13	B Error Log Display	1		

7.1.13 Error Log Display

No	Procedure	Menu display Selected item/Display	Status transition	Remarks
1	Select "12. Error Log" by pressing $\blacksquare/ ♀$ and press the Enter button.	Maintenance Menu © 12: Error Log © ©	•	
2	The error log display screen is displayed as shown on the right. Pressing	Logs (No.xxxx) YYYY-MM-DD hh [‡] mm Total [‡] XXXXX Error code + Description	ل	* The logs are displayed in reverse chronological order (the latest log is displayed on top).

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No	Drogodyno	Menu display	Status	Domoniza
INO	Procedure	Selected item/Display	transition	Kemarks
	Select "13. Clear Periodic Mainte. Alarm" by	Maintenance Menu		
	pressing \blacksquare / \uparrow and press the Enter button.	E		
1		13: Clear Periodic Mainte. Alarm	▲ ¬	
		E		
		E		
2	The screen on the right appears.	Maintenance Date	 ↓ ↓	
2	Press the Enter button.	Enter Maintenance Date.	-	
	"Maintenance Date" on the right is displayed.	Maintenance Date		
	Configure the date (year/month/day) when	Year: YYYY		
3	maintenance and checking ware done.	Month: MM		
	Select the selected (highlighted) item by pressing	Day: DD	<u> </u>	
	\blacksquare and press the Enter button to configure.			
	The confirmation screen on the right appears.	Maintenance Date		
	To configure the maintenance/checking date to	Configure?	-	
	the setting value,	1: Yes		
4	select [1: Yes] by pressing \blacksquare / \uparrow and press the	2: No		
	Enter button.			
	If [2: No] is selected, the screen returns to the			
	maintenance menu.			
7.1.1	5 Display / Clearing Consumable Counters			

7.1.14 Clearing Periodical Maintenance Alarm

7.1.15 Display / Clearing Consumable Counters

No	Procedure	Menu display Selected item/Display	Status transition	Remarks
1	Select "14. Show/Clear Counters" by pressing $\boxed{\bigcirc}$ and press the Enter button.	Maintenance Menu C 14: Show/Clear Counters C C	•	
	"Show/Clear Counters" screen is displayed. Pressing the $\boxed{\blacksquare}/ \stackrel{\frown}{\Rightarrow}$ button selects a consumable and maintenance part to refer to it. Display the counter that you want to clear, and then press the Counter Reset button to display the window to confirm resetting the counter (Now:).	Show/Clear Counters Brake Roller Set: XXXXX Now: XXXXXX Pick Roller Set: XXXXXX Now: XXXXXX	₊	
2	The displayed consumables and maintenance parts are as follows:	Separator Roller Set: XXXXXX Now: XXXXXX Assist Roller Now: XXXXXX		
	Set:] Life duration setting counter [Now:] The number of sheets scanned	Now: XXXXXX Cleaning Set: XXXXXX Now: XXXXXX		
	The screen on the right appears. To clear the counter (Now:), select [1: Yes] by pressing , and press the Enter button. If [2: No] is selected, the screen returns to the maintenance menu.	* <u> 後回値へ⊢ペス↔</u> 1: Yes 2: No		The selected item is displayed on "*".

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7.2 Maintenance Tool (Online Test)

7.2.1 Connecting the Scanner

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1	

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7.2.2 Starting up / Shutting down the Maintenance Tool

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7.2.3 List of Tests / Diagnostic Items

No	Function	Description
1	Adjustments	 Adjusts the scanner. There are the following adjustment items: (E)! Offset (ADF front/ADF back/ADF duplex) (E)! Magnification (Main scanning ADF front/ADF back/AD duplex, Sub-scanning Feed/Assist/Feed & Assist) (E)! White level (ADF front/ADF back/ADF duplex) (E)! Ultrasonic sensor output level
2	EEPOM R/W test	Performs EEPROM R/W test. Tested items are "Save", "Restore" and "Initialize". (Select whether the consumable counter is cleared or not at restoration.
3	Operator panel test	Performs the test for the Operator panel buttons.
4	Memory test	Performs the memory R/W test. (Compares the write data with the read data).
5	Motor test *1	Performs the motor operation test. There are the following test items: (E) Pick motor (E) Feed motor (E) Background changeover motor (E) Separation motor (E) Hopper motor (E) Stacker motor (E) Pick solenoid
6	Sensor test	Performs the sensor test and displays the sensor status with ON or OFF. There are the following test items: (£)! Ultrasonic sensor (£)! Other sensors (£)! Sensor current value test (£)! Feeding sensor test
7	ADF Running test	Performs the feeding test. Feeds paper on the ADF until the hopper become empty.
8	Lamp test *1	Flashes the lamps on the ADF front and ADF back.
9	Thermistor test	Performs the operation test for each thermistor. The test item is ambient temperature of the ADF.
10	Option display	Displays the Imprinter connection status.
11	MTBF test	Performs the MTBF test.
12	Error information	Collects the log information of the error type and the date the error occurred which are saved in the scanner, and saves it into the log file which is created when this tool is terminated.
13	Consumable count	Displays the consumable counters. Displays the followings: (E)! Pick roller (C)! Brake roller (E)! Separator roller (C)! The date of the scanner used for the first time (C)! The total number of sheets scanned by the ADF (E)! The number of the times the Feed rollers and Assist rollers are used

*1: Interlock needs to be cancelled.

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7.2.4 Adjustments (Offset / Magnification / White Level)

No	Adjı	ıstment item	Adjustment method
		Front	Prepare A3-size (297x420mm) white sheets.
1	Offset	Back	Load the sheets and click the [Start] button.
		Duplex	
			Prepare A3-size (297x420mm) white sheets.
			(10 sheets are required when the Feed roller is included at sub-scanning.)
	Magnification		Load the sheets and click the [Start] button.
2		Main scanning, front	For sub-scanning, the counter clear confirmation screen appears when the
			adjustment is complete successfully.
			Click [Yes] to clear the counter.
			Click [No] if you do not want to clear the counter.
2	White level		Prepare the TESTCHART(W) PA03277-Y123.
3	white level		Load the sheet and click the [Start] button.
4	Ultrasonic sens	or output laval	Prepare the ADJUSTMENT SHEET PA03296-Y990.
4	Utuasoffic sens		Load the sheet and click the [Start] button.

Select an item and click the [Start] button to start the adjustment.



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7.2.5 EEPROM R/W Test

Configure the data and then select an item (read/write/save/restore) to perform the test.

No	Test item	Test method
1	Save	Saves the EEPROM data and stores it on PC.
2	Restore	Restores the EEPROM data to the factory default.
3	Initialize	Initializes the EEPROM data.

7.2.5.1 Save



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7.2.5.2 Restore

Section 2017 - 6670/fi-6750S 診断ツール Section 2017 - 6670/fi-6750S Section 2017 - 6670/fi-6750S Section 2017 - 6670/fi-6750S Section 2017 - 6750S Section 2017	
対象スキャナ(①: fi-6770dj, USB(WDM), ¥¥.¥Usbscan0 ♥ 更新(型) 診断アイテム(型): EEPROM R/W テスト ♥	
保存⑤】【夏元图】刀期化型	
工場出前復元設定項目	Click [Restore]
	Factory default restoration setting confirmation screen appears. The displayed three items are not restored but if you clear the checkbox and click [Write], the data is restored to the factory default.
<u>書込₩</u> 終了⊗	Check the contents before clicking [Write].
(c)	Click [whie] to start whiing to EEPROM.
★ 11-077071-007071-07905 20079-ル 対象スキャナ(診断アイテム(「程存(S)」(復70971-007005 20079-ル 」)	
EEPROM 読み取り 開始 EEPROM 読み取り 成功 EEPROM 書き込み 成功	The screen as shown on the left appears wher EEPROM write is complete successfully.
終了公	

EEPROM restoration function does not restore the saved EEPROM text file.

This is the function that restores the data that has been saved at factory default testing.

EEPROM data is restored to the factory default, but white level, magnification and offset values are not the adjusted values under the current condition of the scanner. Readjustment may be required. Perform readjustment on the Maintenance tool.

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7.2.5.3 Initialize



The initial setting value is written to EEPROM data according to the EEPROM specification. Each value becomes unadjusted value. Be sure to perform each adjustment on the Maintenance tool. The initialized data is all data except for the unique data such as serial number.

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7.2.6 Operator Panel Test

Select an item and click	the [Start]	button to start testi	ng.
--------------------------	-------------	-----------------------	-----

No	Test item	Test method
1	LCD	All lights on (two seconds), all lights off c, H pattern (two seconds), Scroll pattern (ten seconds)
2	LED	Check/Power LED flashes (five seconds), Check/Power LED lights (two seconds), Check/Power LED lights off (two seconds)
3	BUZZER	Buzzer volume (small) (two seconds), Buzzer volume (large) (two seconds)
4	Scan	[Off] is displayed while the button is not pressed. The UI changes to [On] while the button pressed.
5	Stop	[Off] is displayed while the button is not pressed. The UI changes to [On] while the button pressed.
6	Menu	[Off] is displayed while the button is not pressed. The UI changes to [On] while the button pressed.
7	Send	[Off] is displayed while the button is not pressed. The UI changes to [On] while the button pressed.
8	Enter	[Off] is displayed while the button is not pressed. The UI changes to [On] while the button pressed.
9	Cancel	[Off] is displayed while the button is not pressed. The UI changes to [On] while the button pressed.
10	Arrow(Up)	[Off] is displayed while the button is not pressed. The UI changes to [On] while the button pressed.
11	Arrow(Down)	[Off] is displayed while the button is not pressed. The UI changes to [On] while the button pressed.
12	iMFF	[Off] is displayed while the button is not pressed. The UI changes to [On] while the button pressed.
13	Eject	[Off] is displayed while the button is not pressed. The UI changes to [On] while the button pressed.
14	Counter Reset	[Off] is displayed while the button is not pressed. The UI changes to [On] while the button pressed.



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7.2.7 Memory Test Select an item and click the [Start] button to start testing.

No	Test item	Test method
1	Memory test	Click the [Start] button.

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	開始(S)	
	TBD	
	TBD	
	TBD	
	TBD 終7(2)	

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7.2.8 Motor Test

No	Test item	Test method
1	Pick motor	Click the [Start] button. The Pick motor operates until the [Stop] button is clicked.
2	Feed motor	Click the [Start] button. The Feed motor operates until the [Stop] button is clicked.
3	Background changeover motor	Click the [Start] button. The Background changeover motor operates until the [Stop]
		button is clicked.
4	Separation motor	Click the [Start] button. The Separation motor operates until the [Stop] button is
		clicked.
5	Hopper motor	Click the [Start] button. The Hopper motor operates until the [Stop] button is clicked.
6	Stacker motor	Click the [Start] button. The Stacker motor operates until the [Stop] button is clicked.
7	Pick solenoid	Click the [Start] button. The Pick solenoid operates until the [Stop] button is clicked.

対象スキャナ(工):	fi-6800dj, USB(WDM), ¥¥¥Usbscan0 🛛 🖌 更新(L
診断アイテム(<u>D</u>):	モータ/ソレノイド テスト 💽
モータ選択(<u>M</u>):	ビックモータ V 開始(S) 停止(F
	ビックモータ フィードモータ 裏当て切り替えモータ
	分離モータ ホッパモータ
	TBD

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7.2.9 Sensor Test

CIICK	the [Start] U	uttoll.	
No		Test item	Test method
1	Ultra	asonic sensor 1, 2, 3	[Off] is displayed when there is no paper. The UI changes to [On] when two sheets are loaded in piles.
2		Cover sensor	[Off] is displayed when the cover is closed. The UI changes to [On] when the cover is open.
3		Empty sensor	[Off] is displayed when there is no paper. The UI changes to [On] when the Empty sensor is pressed.
4		Pick position sensor	[Off] is displayed when the Pick roller is lowered. The UI changes to [On] when
5	Other	Manual feed sensor	the Pick roller is raised.
6	sensors	Stacker position sensor	[Off] is displayed when there is no paper. The UI changes to [On] when the Stacker position sensor is blocked.
7		Staple sensor	[Off] is displayed when there is no paper. The UI changes to [On] when the sensor is turned on.
8		JAM sensor L, R	[Off] is displayed when there is no paper. The UI changes to [On] when the JAM sensor is blocked.





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7.2.10 Sensor Current Value Test

You can change the current value of each sensor while checking the sensor output level.

No	Target sensor	
1	Pick sensor L, R	
2	Skew sensor L, R	
3	JAM sensor L, R	
4	Feed top sensor	
5	Read top sensor	
6	Imprinter top sensor	
7	Exit sensor	



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7.2.11 Automatic Sensor Judgment

When an A4-size sheet is fed, the sensor ON/OFF is automatically judged and its result is displayed. (In case of NG, the sensor that is NOT operating normally is displayed.)

No	Target sensor	
1	Feed top sensor	
1	Feed roller sensor	
2	Read top sensor	
3	Imprinter top sensor	
4	Exit sensor	
	Pick encoder sensor L/R	
5	Pick sensor L/R	
	Pick position sensor	
6	Skew sensor L/R	
7	Separator encoder	
8	Brake encoder	
9	Hopper bottom sensor	
10	Stacker bottom sensor	



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7.2.12 ADF Running Test

	No	Test item	Test method
ſ			Load paper on the ADF and click the [Start] button.
l	1	Feeding test	Feed all the sheets until no paper remains on the ADF.
			If the Post-imprinter (front/back) is installed, imprinting test is available.



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7.2.13 Lamp Test

No	Test item	Test method
1	ADF front lamp	Click the [Start] button to flash the ADF front lamp.
2	ADF back lamp	Click the [Start] button to flash the ADF back lamp.



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7.2.14 Thermistor Test

No	Test item	Test method
1	ADF ambient	Measures the ambient temperature of the ADF and displays it.
2	ADF front CCD	Measures the ambient temperature of the CCD and displays it.
3	ADF back CCD	Measures the ambient temperature of the CCD and displays it.



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7.2.15 Option Display

Connection status of the Post-imprinter (front/back) is displayed.



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7.2.16 MTBF Test

Performs the MTBF test.



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7.2.17 Error Information

Click the [Start] button to execute.

No	Test item	Test method
1	Start	Collects the log information of the error type and date that the error occurred which is stored in the scanner, and then saves it into the log file that is created
		when this tool is completed.

[Log information]

The log information includes the date (year/month/day) and time (hour/minute) that the error occurred, and the total number of sheets scanned.

It also stores the information of the driver starting up, power off, consumable alarm, and consumable alarm clear.

(Example)

Date $(V/M/D)$	Time (H/M)	Total number	Error code	Description
Date $(1/WI/D)$,	1 mie (11/101),		Enoi coue,	Description
		of sheets scanned	,	
08/09/07,	08:50	151000	0x00,	Driver starts up
08/09/07,	09:35	151300	0x31,	Paper jam (Read Top sensor)
08/09/07,	09:52	152000	0x00,	Consumable alarm (Pick roller)
08/09/07,	15:10	152450	0x55,	Multifeed (overlapping)
08/09/07,	17:01	153200	0x00,	Power off
08/09/08,	08:40	154000	0x00,	Driver starts up
08/09/08,	08:50	154000	0x00,	Consumable alarm clear (Pick roller)
08/09/08,	10:42	154100	0x50,	Paper jam (miss-picking)
08/09/08,	11:05	154950	0x55,	Multifeed (overlapping)

Scanner log storage size: 448 KB (= 64 KB x 7) Each log information size: 16 byte

The maximum number of stored logs: 28,672

(Example)

If ten logs are stored per day, 2,400 logs are stored for a year, so all the logs can be kept for about 12 years.



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7.2.18 Consumable Count

Displays the consumable counters. The following items are displayed:

- \mathbf{A} ! The first date the scanner is used
- \mathbf{E} ! The total number of sheets scanned by ADF
- \mathbf{E} ! The number of times the Pick roller is used
- \mathbf{E} ! The number of times the Brake roller is used
- \mathbf{E} ! The number of times the Separator roller is used
- \mathbf{E} ! The number of times the Feed roller is used
- \mathbf{A} ! The number of times the Assist roller is used



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Chapter 8 Operation and Daily Maintenance

8.1 Basic Operation

8.1.1 Turning the Power ON/OFF

Turning the Power ON

When connecting via SCSI, turn on the scanner and confirm that [Ready] is displayed on the LCD before you turn on the computer.

- (1) Press the "l" side of the main power switch on the back.
- (2) Press the power button on the front of the scanner.
- (3) The power is turned on, and the power button lights in blue.





(4) Note that the following screen is displayed on the operator panel LCD during initialization. When [Ready] is displayed on the LCD, the scanner is ready to start scanning.



NOTICE

If the ON/OFF function is disabled on the front of the scanner, turn off the power using the main power switch.

- (1) Press the power button on the front for more than two seconds.
- (2) The power is turned off and the power button switches off.
- (3) Press the "O" side of the main power switch and turn off the power.





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8.1.2 Opening/Closing the Hopper

How to Open the Hopper

(1) Push the upper middle section of the hopper.



(2) Bring down the hopper as you support it with your hand.



(3) Adjust the hopper extension to the length of the document.



- (3) If the hopper level has been adjusted, set the hopper back to the lower position.
- (4) Close the hopper and make sure to push the hopper until it locks.



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<u>8.1.3 Opening/Closing</u> the ADF

How to Open the ADF

(1) Remove all documents from the stacker.

NOTICE

Do not open the ADF when there is a large volume of documents left on the stacker. You may have your fingers caught if the ADF closes from the weight of the documents.



(2) Grab the ADF release tab and lift it up to open the ADF.





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8.1.4 Opening/Closing the Top Cover How to Open the Top Cover

Hold on to the top cover release tab and push it up to open the top cover.



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8.1.5 Setting the Loading Capacity of the Hopper

You can change hopper's position when the scanner is ready to scan ([Ready] is displayed on the LCD). If there are only a few documents, you can set the hopper to a higher position and shorten the time to get to feeding position.

- Do not touch the hopper while it is moving up/down to avoid the rist of jamming your fingers.
- Do not place anything on top of the hopper while it is moving. The scanner may be damaged if any other object is caught inside.

Upper

Middle

Lower

- To avoid any contact that may damage the scanner, do not place anything beneath the hopper.
- Do not adjust the hopper height from the operator panel when the hopper is closed as it may damage the hopper.

This function is not available under the following conditions:

- During scanning
- When the hopper is closed
- When the Software Operation Panel is running

The loading capacity of the hopper can be set to three different capacities. Upper: A maximum of 100 sheets (*1) can be loaded. Middle: A maximum of 300 sheets (*1) can be loaded.

Lower: A maximum of 500 sheets (*1) can be loaded.

*1: Long Page Scanning supports scanning of documents with a length up to 3048 mm (120 in.) in feeding direction.

The capacity varies depending on the paper thickness of the document. For more details, refer to Section 1.2.3 "Loading capacity".

How to Set the Loading Capacity of the Hopper

<u>Setting Method 1:</u> Set the [Hopper Level] using scanner's operator panel Configure the settings by selecting [10: Hopper Level] in the [Main Menu] of the operator panel.

Setting Method 2: Set the [Hopper Level] using shortcut keys.



When you press the [Eject] button and [\blacksquare] button at the same time, the hopper level will increase by one level. (Lower \rightarrow Middle \rightarrow Upper) When you press the [Eject] button and [\updownarrow] button at the same time, the hopper level will decrease by one level. (Upper \rightarrow Middle \rightarrow Lower)

NOTICE

The Hopper level is set to [Lower] position right after the scanner has been turned on.

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8.1.6 Loading the Documents on the Hopper

Preparation

NOTICE

For details about the paper size and paper quality, refer to Section 1.2 "Document Specification".

- (1) Check the documents to be loaded.
 - D Check if the documents to be loaded are of the same size or different sizes. Ways to load documents differ depending on whether the documents are the same size or not. For more details about how to load documents, refer to "How to Load Documents".
 - Check the number of sheets.

Up to 500 sheets can be loaded (with paper weight of 80 g/m² [20 lb], thickness of the document stack under 50 mm, and the total weight under 5 kg).

For more details, refer to Section 1.2.3 "Loading Capacity".

- For documents with tabs or non-rectangular documents, refer to "Loading Documents with Tabs or Non-rectangular Documents".
- For documents with different widths, refer to Section 1.2.8 3 Scanning a Mixed Batch of Documents" or "Scanning Documents of Different Widths".
- (2) Fan the documents.
 - $\textcircled{D}\$ Hold both ends of the documents and bend them.



[®] Firmly holding the documents with both hands, bend them back in the opposite direction as follows.



- (F) Repeat steps 1) and 2) a few times.
- [©] Rotate the documents by 90 degrees and fan them in the same manner.
- H Align the edges of the documents.

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Section 8.1.6

How to Load Documents

There are two ways to load the documents on the hopper.

- D Setting the documents at the center of the hopper (mainly when the documents are of the same size)
- (E) Setting the documents by the left or right side of the hopper (mainly when the documents are in different sizes or when you want to shift the center of the documents)

Note that different conditions apply for multifeed detection when you set the documents by either left or right side of the hopper.

① Setting the documents at the center of the hopper

- (1) Load the documents on the hopper.
- ! Set the documents with the front side, scanning side, facing up.



- 1) Make sure to keep the documents within the maximum load line on the inside of the hopper side guides.
- 2) Pull out the hopper extension accoding to the length of the document before placing the documents.
- (2) Adjust the hopper side guides to the document width. Move the hopper side guides while pressing the side guide clutch so that there is no space left between the documents and the hopper side guides.

Otherwise, the documents may be scanned ske



Remove all paper clips and staples. Reduce the amount of documents if a multifeed or pick error occurs.

- (3) Adjust the stacker extension to the document length, and pull up the paper stop. For information on how to set the stacker, refer to Section 8.1.7 "Stacker Setting".
- (4) Start up an application for scanning and scan the documents.

For information on how to scan using ScandAll PRO, refer to Section 8.2 "ADF Scanning".

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② Setting the documents by the left or right side of the hopper

- (1) Slide the hopper side guides to their outermost positions.
- (2) Set the documents so that the smallest document can be picked by the pick rollers.



Make sure that all documents are placed underneath the pick roller, otherwise the document will not be picked.



- (3) Adjust the hopper side guides to the document width. Move the hopper side guides towards the center as you press the side guide clutches, and leave no space between the hopper side guide and the widest document.
- (4) Lock one of the hopper side guides.In this case, lock the hopper side guide on the right side by sliding up the side guide lock.



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(5) Move the other hopper side guide to the target position while pressing the side guide clutch. In this case, slide the left hopper side guide as you press the side guide clutch and leave no space between the hopper side guide and the document.



- (6) Adjust the stacker extension to the document length, and pull up the paper stop, For information on how to set the stacker, refer to Section 8.1.7 "Stacker Setting".
- (7) Start up an application for scanning and scan the documents.
 For information on how to scan using ScandAll PRO, refer to Section 8.2 "ADF Scanning"

How to Unlock the Hopper Side Guides

- (1) Slide down the side guide lock of the hopper side guide that is locked.
- (2) Move both hopper side guides towards the center while pressing the side guide clutches.



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8.1.7 Stacker Setting

When you perform a scan, the document loaded on the hopper is ejected onto the stacker. As shown in the procedure below, documents can be stacked neatly by using the stacker extension and the stacker side guides to keep them straight. You can also fix the stacker at certain heights.

How to Guide Documents

(1) Adjust the stacker extension to the length of the document, and pull up the paper stop.

NOTICE

- 1) Do not hold the paper stop when you pull out the stacker extension because it may break.
- 2) Make sure that the position of the paper stop is set longer than the document length.

Referrence

- 1) Use the paper stop (small) when the document length is short.
- 2) To scan documents longer than A3 size, pull out the hopper extension and the stacker extension all the way. Also, make sure not to pull up the paper stop.



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How to Fix the Stacker Height

When thin documents are fed, the ejected documents on the stacker can be curled and may not be stacked neatly. In such a case, fixing the stacker height may improve the symptom.

- (1) If the scanner driver's setup dialog box is being displayed, close the dialog box.
- (2) In the [Main Menu] of the operator panel, select [2: Fixed] for [9: Stacker Positioning].For more details about the settings, refer to Section 8.1.9.4 "Operator Panel Main Menu Items".

Referrence

- 1) When the scanner has just been turned on, it is set to [1: Movable].
- 2) In the rear ends of the stacker, a sensor is mounted on each side which detects documents. Make sure that nothing is placed in a location that may block the sensor.
- 3) The stacker may move just after turning the power on or when the scanning starts. Do not touch or place anything on top.



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8.1.8 Setting the Paper Thickness (Adjusting the Paper Separation Force)

When you experience frequent multifeeds, pick errors or paper jams, you can fix these by adjusting the force that separates the papers. Keep the default setting for normal use.

Level	LCD display Low High	Separation Force	Paper typet		Remarks
1		Low	Low friction,		Prevents pick error and paper jam
2		Slightly low	Easy to separate		
3		Normal (*1)		_	
4		Slightly high	High friction	<u> </u>	
5		High	Difficult to separate		Prevents multifeed

Paper separation force can be set in five different levels depending on paper thickness.

*1: Paper weight is between $52g/m^2$ and $127g/m^2$.

- 1) Set the paper separation force lower when pick errors or paper jams occur frequently.
- 2) Set the paper separation force higher when multifeeds occur frequently.
- 3) Errors such as multifeed, pick error and paper jam may also be caused by worn-out consumables or contamination in the feeding mechanism. If these symptoms do not change after setting the paper thickness, either replace the consumables or clean the inside of the scanner.
- Documents may be damaged if the paper separation force is set too high. In that case, set the paper separation force lower.

How to Configure the Settings

[11: Paper Separation Force] can be adjusted in the [Main Menu] of the operator panel of the scanner. For more details about the settings, refer to Section 8.1.9.4 "Operator Papel Main Menu items".

NOTICE

- 5) The paper separation force is set to [🕸 🕸 🐨] (Normal: default) when the power has just been turned on. However, note that. You can also have the paper separation force setting memorized by using the Software Operation Panel.
- 6) [Paper Separation Force] can also be set using shortcut key.
 - When you press the $[\triangle]$ button, paper separation force increases by one level.
 - When you press the $[\nabla]$ button, paper separation force decreases by one level.

When [Paper Separation Force] is displayed by shortcut key, the screen returns to [Ready] after a certain period of time. This period of time can be configured in [18: Operation Panel Timeout] of the operator panel.



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8.1.9 How to Use the Operator Panel 8.1.9.1 Names and Functions of the Operator Panel

The illustration below explains the name and function of each button on the Operator Panel.



*1: In order to scan by using the [Scan] button or [Send to/Pause] button, you need to assign the launching application to each button on the computer.

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8.1.9.2 Indications on LCD

The table below explains about the conditions displayed on the LCD.

No	Display	Description
1	<u>fi series</u>	Processing initialization. For details, refer to "2.1.2 Power ON ~ Initialization completes".
2	Ready Total: Scan: MATO F01 Indicator	Ready to start scanning. It indicated that the initialization was successfully completed. For more details about the indicators, refer to "8.1.9.3 About the Indicators".
3	Main Menu ↓ Title 1: iMFF Settings 2:No. of Paper 3: Pick Speed	An item from the menu can be selected. When you press the [Menu] button in the [Ready] screen, the [Main Menu] screen is displayed. Main Menu is used to configure various operational settings upon scanning. For more details about the Main Menu, refer to Section 8.1.9.4 "Operator Panel Main Menu Items".
4	Function Selecti No.01 ⇔ Items	A function can be selected. When you press the [Function/Enter] button in the [Ready] screen, the [Function Selection] screen is displayed. By using this, you can configure an application to launch when the [Send to/Pause] button is pressed.
5	J5:25 Error Stopped scanning to prevent pape r damage . Remove the docum	It indicates that a recoverable error occurred during scanning. Error codes beginning with the letter "J" or "U" are displayed. For more details about errors, refer to "5.2.2 Temporary Errors". If you press the [Clear/Back] button after handling the error, it will return to the [Ready] status.
6	E2:74 Error Optical error (A DF Front) If the status re mains the same a	It indicates that a device error (alarm) occurred during initialization or scanning. Error codes beginning with the letter "E", "F", "C", "H", "A" or "L" are displayed. For more details about errors, refer to "5.2.2 Temporary Errors".
7		When the scanner has not been in operation for the set sleep interval, it enters Power Saving mode. The time to start Power Saving mode can be set from the Software Operator Panel. For more details, refer to Section 8.6 "Scanner Settings"

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8.1.9.3 About the Indicators

Below is explained about each of the indicator icons which is displayed on the LCD.



(1) Paper Separation Force

Displays the paper separation force setting. For information on how to configure the settings, refer to Section 8.1.8 "Setting the Paper Thickness (Adjusting the Paper Separation Force).

(2) iMFF Setting

Displays the iMFF setting. The displayed icon switches when the [iMFF] button is pressed down for more than two seconds. In Manual Mode, * is displayed at all times. In Auto mode 1 and Auto mode 2, it displays the number of multifeed patterns memorized (max. of 8 patterns). For more information, refer to Section 8.1.9.4 "Operator Panel Main Menu Items".

(3) Multifeed Pattern Memory

is displayed when memorizing a multifeed pattern.

(4) [Send to] Button Configuration Number

It displays the number assigned ($\boxed{F01}$ to $\boxed{F50}$) to the application that is launched when the [Send to] button is pressed. When the setting for the application to be launched is set to Software Operantion Panel, $\boxed{50P}$ is displayed.

(5) MF Quick Change Settings

When [Enable (Detect)] or [Enable (Ignore)] is specified for MF quick change setting, it displays whether or not to detect multifeed. The displayed icon switches when the [Eject] button is pressed. For more information, refer to Section 8.1.9.4 "Operator Panel Main Menu Items".

(6) Prioritize Panel Settings

D appears when the operator panel settings are prioritized. For more information, refer to Section 8.1.9.4 "Operator Panel Main Menu Items".

(7) Information

appears when a message for replacing consumables/cleaning/replacing maintenance parts/regular maintenance is displayed. For more information, refer to Section 8.1.9.4 "Operator Panel Main Menu Items".

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8.1.9.4 Operator Panel Main Menu Items

The table below explains the operator panel main menu items.

Operator Panel Main Menu Items (1/5)

No	Item	Description	Setting/Value	Factory Default	SOP Setting (*1)
=	Information	[Information] appears as an item in [Main Menu] only when is displayed on the LCD.	Message for replacing consumables/cleaning/replacing maintenance parts/regular maintenance	Only displayed when there is information	=
1	iMFF Setting	When there is a paper of the same size attached to a designated location on the page, you can have the scanner memorize the location of the attachment and not detect the same pattern as multifeed. Note that you need to specify [Detect by overlap (Ultrasonic) in either the scanner driver's setup dialog box or the multifeed detection setting. By selecting [Clear pattern], you can clear the overlapping patterns (length, location) that were previously memorized in Auto mode.	1: Manual mode 2: Auto mode 1 3: Auto mode 2 4: Clear pattern	1: Manual Mode	ন
2	No. of Paper Feed Retries	It is used to reduce the number of paper feeding retries (when the document is not picked properly).	1 to 12 (times)	3 times	스
3	Pick Speed	When you experience frequent multifeeds and paper jams, the symptom may be improved by slowing down the speed in which documents are picked (fed).	1: Normal 2: Slow	1: Normal	식
4	Soft Pick Setting	When skew or multifeeds occur frequently, the symptom may be improved by bringing down the pick roller unit and keeping the unit at the lower position (disabling the Soft Pick Setting).	1: Enable 2: Disable	2: Enable	식
5	Manual Feed Timeout	Specify the waiting time to clear the Manual Feed mode.	For SCSI or USB Connector 1: 5, 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 180, 240, 300, 360, 420, 480, 540, 600, 900, 1200, 1500, 1800, 1999 (seconds) For SCSI or USB Connector 2: 5, 10, 20, 30 (seconds)	10	ন্দ

 *1)SOP Setting¹ Availability of configuring the settings from Software Operation Panel (Configurable¹ O, Not Configurable¹ Ø, No setting¹ →)

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Section 8.1.9.4

Operator Panel Main Menu Items (2/5)

No	Item	Description	Setting/Value	Factory Default	SOP Setting (*1)
6	Paper Protection	Select whether to enable or disable Paper Protection. Enabling this setting reduces the risk of having the documents damaged upon feeding errors, by stopping the scan when the scanner detects a document that is unusually warped. You can specify the level of sensitivity to detect an abnormal feeding of documents when Paper Protection is enabled. Documents are deformed (e.g. warped, bent, creased) when they are not being fed by the rollers properly. To detect such a symptom and stop the scan, select [1: Low] to only detect documents that are highly deformed, and [3: High] to also detect documents that are slightly deformed. Paper Protection is disabled in Manual Feed mode. Enable/Disable can also be configured from the scanner driver's setup dialog box or the Software Operation Panel. In this case, priority is given to the scanner driver setting unless you have prioritized the operator panel setting. Sensitivity can also be configured from the Software Operation Panel. Priority is given to the scanner driver setting unless you have prioritized the operator panel setting.	1: Enable 2: Disable Sensitivity: 1: Low 2: Normal 3: High	2: Disable Sensitivity: 2: Normal	£
7	MF Quick Change	Enables you to switch whether or not to detect multifeed by a push of a button. Priority is given to the driver setting when [1: Disable] is selected. When [2: Enable(Detect)] or [3: Enable(Ignore)] is selected, it switches between detecting/not detecting multifeed every time the [Eject] button is pressed. It can be switched during scanning. For [2: Enable(Detect], it detects multifeed by default and multifeed detection is performed according to the driver setting. For [3: Enable(Ignore)], it does not detect multifeed by default and this setting is given priority over the driver setting.	1: Disable 2: Enable (Detect) 3: Enable (Ignore)	1: Disable	ন
8	Alarm Volume	Specify whether or not to ring an alarm when an error such as multifeed or paper jam occurs.	1: OFF 2: Low 3: High	1: OFF	ন
9	Stacker Positioning	Adjust the stacker position. You can set the stacker at certain heights.	1: Movable 2: Fixed	(*2)	Ø

*1) SOP Setting: Availability of configuring the settings from Software Operation Panel

(Configurable[‡] O, Not Configurable[‡] Ø, No setting: -)

*2) Although there is no factory default setting, it is set to [1: Movable] when you turn on the power. Therefore, the setting does not change even when you initialize the operator panel.

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Operator Panel Main Menu Items (3/5)

No	Item	Description	Setting/Value	Factory Default	SOP Setting (*1)
10	Hopper Level	Change the hopper level during standby. Selecting [1: Manual (Continuous)] switches the scanner to Manual Feed mode (Continuous Feed mode). The hopper level cannot be changed in Manual Feed mode (Single Feed mode). Remove all documents from the hopper when you configure this item. The hopper is set to [4: Lower] when you clear manual feeding (continuous).	1: Manual (Continuous) 2: Upper 3: Middle 4: Lower	(*3)	Ø
11	Paper Separation Force	When you experience frequent multifeeds, pick errors or paper jams, take measures by adjusting the force to separate the papers. Keep the default setting for normal use. For more details, refer to Section 8.1.8 "Setting the Paper Thickness (Adjusting the Paper Separation Force)".	Low High 성렬별렬렬 성성렬렬렬 성성성성 성성성성 성성성성	영영영영영 (*4)	Ø
12	Alarm Sound Time	Specify the duration to ring the alarm when errors such as multifeed and paper iam occur	0.5, 1, 1.5, 2.0, 2.5 (seconds)	2.0 seconds	Ø
13	Button Sound Vol.	Specify whether or not to make a sound when a button on the operator panel is pressed.	1: OFF 2: Low 3: High (ring time fixed at 0.01 second)	1: OFF	Ø
14	Contrast	Specify the contrast for the LCD on the operator panel.	Weak! Strong 호텔 별 별 호 호 한 별 호 호 호 한 호 호 호 호 한 호 호 호 호 한 호 호 호 호 호	৵ ৵৵	Ø
15	Backlight ON	Specify the duration for which the backlight is ON. Until initialization is complete after turning the power on, this item operates in [ON] regardless of the setting configured.	OFF, ON, 5, 10, 20, 30, 40, 50, 60, 90, 120, 150, 180, 210, 240, 270, 300 (seconds)	ON	Ø
16	LED Blink Cycle	Specify the interval in which the Check LED flashes when (for Information) is displayed on the LCD.	0.5, 1.0, 1.5, 2.0, 2.5 (seconds)	2.0 seconds	Ø
17	Horizontal Scroll Speed	Specify the speed in which the display is horizontally scrolled. The displayed item is scrolled horizontally when the text does not fit in the LCD.	1: Fast 2: Norma 3: Slow 4: OFF	2: Normal	Ø

 *1) SOP Setting¹ Availability of configuring the settings from Software Operation Panel (Configurable¹ O, Not Configurable¹ Ø, No setting: -)

*3) Although there is no factory default setting, it is set to [Lower] just when you turn on the power: [2: Multiple sheets] for [No. of sheets scanned], [1: Front Side] for [Print], [1: (L)ABCDEFGHIJKLMNOPQRSTUVWXYZ[]]^_'00000000] for [Print Pattern], and [1: Yes] for [Test Print]. Therefore, the setting does not change even when you initialize the operator panel.

18	Operation Panel Timeout	Specify the time to return to the [Ready] screen from [Hopper Level] or [Paper Separation Force]. Note that this option is only available when you display [Hopper Level] or [Paper Separation Force] from the	OFF/5 to 9 (seconds)	7 seconds	Ø	
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		[Ready] screen by using a shortcut key. To display [Hopper Level] by shortcut key, press the [Eject] button and either $[\Delta]$ or $[\nabla]$ button at the same time when [Ready] is displayed. Note that the [Hopper Level] screen is not displayed unless the two buttons are pressed simultaneously. To display the [Paper Separation Force] screen by shortcut key, press the $[\Delta]$ or $[\nabla]$ button in the [Ready] screen.			
19	Language	Specify the language in which the data is displayed.	1: Japanese 2: English 3: French 4: German 5: Italian/ 6: Spanish 7: Russian 8: Chinese	2: English	Ø
20	Prioritize Panel Settings	Prioritize the operator panel setting for Paper Protection. When [1: Paper Protection] is selected, the Paper Protection setting of the operator panel is prioritized. When [2: Clear] is selected, the Paper Protection setting is no longer prioritized.	1: Paper Protection 2: Clear	2: Clear	Ø
21	Cleaning	Use this setting when you clean the scanner.		=	Ø

*1) SOP Setting: Availability of configuring the settings from Software Operation Panel

(Configurable[‡] O, Not Configurable[‡] Ø , No setting: -)

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Operator Panel Main Menu Items (4/5)

No	Item	Description	Setting/Value	Factory Default	SOP Setting (*1)
22	Test Print	Use this option to run a test print when the Imprinter is installed.	No. of sheets scanned: 1: Single sheet only 2: Multiple sheets Print: (*5) 1: Front Side 2: Back Side Print Pattern: (*6) Test Print: 1: Yes 2: No	(*4)	Ø
23	Show/Clear Counters	Check the replacement cycle of the consumables and the total page count of the maintenance parts. Also, use it to reset the counter when you have replaced the consumables or performed cleaning.	Brake Roller / Pick Roller / Separator Roller / Assist Roller / Cleaning Ink Level: Front / Ink Level: Back (only when imprinter is installed).	0 Only displayed when imprinter is installed	<u>₽</u>
24	Ope. Panel Initialization	Initialize the settings of the operator panel,! except for the! language setting and any items without a factory default setting.	1: Yes 2: No	(*7)	=
25	Doc Counting Mode	ComparethenumberofsheetsscannedinDocCountingModeandDocCountCheckMode.		=	=

*1) SOP Setting Availability of configuring the settings from Software Operation Panel (Configurable O, Not Configurable Ø, No setting: -)

*4) Although there is no factory default setting, the settings are configured as follows just after the power has been turned on:[2: Multiple Sheets] for [No. of sheets scanned], [1: Front Side] for [Print], [1:

(L)ABCDEFGHIKLMNOPQRSTUVWYXZ [1]^_'0000000] for [Print Pattern], and [1: Yes] for [Test Print]. Therefore the settings do not change even when you initialize the operator panel.

*5) [Print: 1: Front Side/2: Back Side] does not appear unless both Front-Side and Back-Side Imprinters are installed.

*6) Print Pattern:

- 1. (L)ABCDEFGHIJKLMNOPQRSTUVWXYZ[¥]^_`00000000
- 2. (L)abcdefghijklmnopqrstuvwxyz{|}~0000000
- 3. (L)!"#\$%&`()*+,-./0123456789:;=?@00000000
- 4. (P)ABCDEFGHIJKLMNOPQRSTUVWXYZ[¥]^_`00000000
- 5. (P)abcdefghijklmnopqrstuvwxyz{|}~0000000
- 6. (P)!"#\$%&`()*+,-./123456789:;=?@00000000

*7) Although there is no factory default setting, it is set to [No] just after the power has been turned on. Therefore, the setting does not change even when you initialize the operator panel.

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Operator Panel Initialization - Changed Items

No.	Setting Item	Initialization	Factory Default	Setting retainment (EEPROM)	Setting on SOP	Remarks
1	iMFF Setting	N/A	1: Manual Mode	식	식	
2	No. of Paper Feed Retries	N/A	3	식	네	
3	Pick Speed	N/A	1: Normal	식	네	
4	Soft Pick Setting	N/A	2: Enable	식	네	
5	Manual Feed Timeout	N/A	10	식	식	
6	Paper Protection	N/A	Detection: 2: Disable Sensitivity: 2: Normal	લ	લ	
7	MF Quick Change	OK	1: Disable	식	Ø	
8	Alarm Volume	N/A	1: OFF	식	식	
9	Stacker Positioning	N/A	1: Movable	Ø	Ø	
10	Hopper Level	N/A	4: Lower	Ø	Ø	
11	Paper Separation Force	OK	夜夜夜 夜	식	Ø	
12	Alarm Sound Time	OK	2.0 (seconds)	네		
13	Button Sound Vol	OK	1: OFF	식		
14	Contrast	OK	\$\$ \$\$	역		
15	Backlight ON	OK	ON	년		
16	LED Blink Cycle	OK	2.0 (seconds)	¢I		
17	Horizontal Scroll Speed	OK	2: Normal	식		
18	Operation Panel Timeout	OK	7	네		
19	Language	N/A	2: English	네		
20	Prioritize Panel Settings	OK	2: Clear	식		
21	Cleaning	=		=		
22	Print Test	=		=		
23	Show/Clear Counters	=	=	식		
24	Ope. Panel Initialization	=		=		
25	Doc. Counting Mode		=	=		

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8.2 ADF Scanning

8.2.1 Document Scanning

- (1) Turn on the scanner. (Refer to Section 8.1.1.)
- (2) Turn on the computer.



When connecting via SCSI, turn on the scanner and confirm that [Ready] is displayed on the LCD before you turn on the computer.

- (3) Load documents on the hopper. (Refer to Section 8.1.6.)
- (4) Set the stacker. (Refer to Section 8.1.7.)
- (5) Start up ScandAll PRO Select the [Start] menu → [All Programs] → [Fujitsu ScandAll PRO] → [ScandAll PRO]
- (6) Select [Tool] \rightarrow [Setup]. \iint The [Setup] screen appears. (7) Select a scanner driver to use for scanning in the [Scan] tab and click the [OK] button.
- Using TWAIN driver: Select [TWAIN]. Using ISIS driver: Select [ISIS/VRS] Using VRS [SCSI or USB Connector 2 (CGA board)]: Select [ISIS/VRS].

NOTICE

The scanner driver needs to be installed beforehand

印刷 スキャン 表示 ホットキー イベント パスワード	
 ドライバ ● TWAIN (詳細な読み取り)パラメーターを設定可能) ▼] スキャナ装置の自動検索を行入D) ● ISIS / VRS 	
読み取り結果報告(P) 出力しない マアイル名(F): C¥Users¥User3¥Documents¥report)	oe(参照(B)
ー・時格納ディレクトリバ C*Users*User3¥i LS=モデマロークレルクロロ	参照(O)
MinitialSetting%	

[For FUJITSU TWAIN 32]

- (8) Click [Scan] menu \rightarrow [Select Scanner]
- ∬ [Select Scanner] dialog box appears.
- (9) Select a scanner to use and click the [Select] button.

The scanner name displayed differs depending on the scanner driver you use.

ScandAll PRO [Driver setting]	TWAIN	ISIS~7	VRS
Scanner driver	FUJITSU TWAIN32	FUJITSU ISIS	Kofax VRS
Displayed scanner name (device)	FUJITSU fi-6800dj	Fujitsu fi-6800	Kofax VRS Scanner



[For FUJITSU TWAIN 32]

[For ISIS]

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- (10) Click [Scan] menu \rightarrow [Scan Settings]
 - ∬ [Scan Settings] dialog box appears.
- (11) On the [Scan Settings] dialog box, clear the checkbox on [Save to file].

The user may configure specific destination folder and name rule. This procedure describes as the image data is confirmed on the window (the data is not saved as a file).





8.2.2 Scanning Documents of Different Widths

When you scan a batch of documents with different widths, load the documents using the following procedure:

NOTICE

- 1) When you scan documents of different widths at the same time, some of the smaller documents may be skewed or may not be fed into the scanner. Try to scan documents of the same widths at once.
- For more details about the conditions of scanning documents in mixed batches, refer to Section 1.2.8 "Scanning a Mixed Batch of Documents".
 - (1) To avoid skewed images, select [Automatic Page Size Detection] in [Automatic Size and Skew Detection].
 - D Start up ScandAll PRO and display [TWAIN Driver 32] dialog box.
 - E Click the [Option] button.
 - \iint The [Option] dialog box appears.
 - (F) Click the [Rotation] tab and select [Automatic Deskew] or [Automatic Page Size Detection] in the [Automatic Size and Skew detection] drop-down list.



- \iint It returns to the [TWAIN Driver 32] dialog box.
- (I) Click the [OK] button on the [TWAIN Driver 32] dialog box.
- \iint The settings are saved.
- (2) Align the edges of the documents.



- (3) Place the documents on the hopper and adjust the hopper side guides to the widest document in the batch. For information on how to load documents on the hopper, refer to Section 8.1.6 "Loading the documents on the Hopper".
- (4) Perform a scan from ScandAll PRO.

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8.2.3 Feeding Documents Manually

Besides the normal automatic document feeding in which you load a batch of documents on the hopper and scan them one by one, you can also use the "Manual Feed mode" where you manually feed each sheet and perform scanning.

Normally, in automatic feeding, the scanner stops scanning once all the loaded documents are scanned.

In manual feeding, the scanner waits for the next sheet to be set within a specified time. It continues scanning if an additional document is loaded within the specified time, or stops scanning if no document is loaded.

With this option, you can perform scanning as you check the documents one by one.

Manual feeding is effective for:

- Scanning as you check the contents of each sheet
- Scanning documents that cause multifeed or paper jam when they are loaded together
- Continuously scanning documents such as clippings of magazines and newspapers which cannot be loaded together at once

Paper Protection is disabled in Manual Feed mode. Pause function ([Send to/Pause] button) is disabled during manual feeding.

There are two modes in manual feeding.

Single Feed mode

Only one sheet is manually fed and scanned.

- Suitable for scanning thick papers, envelopes and folded papers that are difficult to scan using Automatic Feed Mode (In case of folded paper, make the folding line as the leading edge).
- Reduces the pressure applied to the document when it enters the ADF (because the pick roller does not touch the document).
- Used to accurately feed and scan one particular sheet of document.
- No paper separation force is applied regardless of the paper separation force setting (five levels) which enables you to scan documents such as envelopes which cause paper jams in automatic document feeding.

Continuous Feed mode

Multiple sheets of document are manually fed one at a time and continuously scanned.

- Documents are scanned one by one even multiple sheets are mistakenly fed.
- When you scan more than one sheet, you can check every sheet as you scan.
- Used to accurately feed and scan multiple sheets of documents.
- The paper separation force setting (five levels) is enabled as with scanning in automatic document feeding. Adjust the paper separation force when a multifeed, pick error or paper jam occurs frequently.

Scanning in Single Feed mode

(1) Lift up the pick roller unit.

Push up the tab in the middle with your finger.



 \iint The pick roller will click into place. The hopper moves up to the feeding position.

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- Make sure that there is no document left on the hopper.
- Be careful not to have your fingers or anything caught when the hopper moves up.
- (2) Load a document on the hopper with the front side (scanning side) facing up.
- Make sure not to place the document all the way in.
- (3) Perform a scan from ScandAll PRO.
- (4) Insert the document until the top edge touches the rollers on the inside.



∬ The document is picked, scanned, then ejected onto the stacker. After the scan, the scanner waits for the next sheet to be fed for the time specified in the Software Operation Panel.

MOTICE

Let go of the document as soon as you confirm that the document is being fed by the rollers.

- (5) Repeat step 4 until all the documents are scanned.
 - ∬ Scanning stops when no document is loaded on the hopper after the time specified in the Software Operation Panel.
 - ©! Scanning can be stopped immediately by pressing the [Counter Reset] button on the operator panel.
 - E! The scanner waits for the period of manual feed timeout even if there is no document left on the hopper.
 - ©! To release Manual Feed mode, bring the pick roller unit back down to its original position. Put your finger on the tab in the center and push it down.

Scanning in Continuous Feed mode

- (1) Open the hopper if it is closed (Refer to Section 8.1.2.)
- (2) Configure by selecting [Main Menu] → [10: Hopper Level] → [1: Manual (Continuous)] on the operator panel. For more details about the setting, refer to ! Section 8.1.9.4 "Operator Panel Main Menu Items".
 - \iint The hopper moves up to the feeding position.

NOTICE

- Make sure that there is no document left on the hopper.
- Be careful not to have your fingers or anything else caught when the hopper moves up.
- You can also set it to [Manual (Continuous)] from the [Hopper Level] screen via shortcut key.
- (3) Load documents on the hopper with the front side (scanning side) facing up.
 - Make sure not to place the documents all the way in.
- (4) Perform a scan from ScandAll PRO.
- (5) Insert the document until the top edge touches the rollers on the inside. When more than one sheet is loaded, only insert the document on the top of the stack. The

document is picked, scanned, then ejected onto the stacker. After the scan, the scanner waits for the next sheet to be fed for the time specified in the Software Operation Panel.



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- (6) Repeat step 5 until all the documents are scanned.
 - ∬ Scanning stops if no document is set on the hopper after the time specified in the Software Operation Panel.
 - ©! Scanning can be stopped immediately by pressing the [Counter Reset] button on the operator panel.
 - C! The scanner waits for the period of manual feed timeout even if there is no document left on the hopper.
 - ©! Continuous Feed mode can be cleared in [10: Hopper level] of the [Main Menu] on the operator panel. The hopper is set to [4: Lower] when you clear manual feeding (Continuous).

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8.3 Cleaning

Cleaning should be performed approximately every 10,000 sheets scanned. Note that this guideline varies depending on the type of documents you scan. (Refer to Notice 1 for details.)

- 1) Cleaning must be performed more frequently when the following types of documents are scanned:
- (E)! Smooth-faced documents such as coated paper
- (£! Documents with printed text/graphics that almost cover the entire surface
- (E)! Chemically-treated documents such as carbonless paper
- (E)!Documents containing a large amount of calcium carbonate
- (E)! A large volume of documents written with lead pencil
- E! Documents on which the toner is not sufficiently fused

E!

2) Use a dry cloth or cloth moistened with alcohol.

No.	Cleaning location	Refer to	
1	Pick Roller	Section 8.3 (1)	
2	Separator Roller	Section 8.3 (2)	
3	Brake Roller	Section 8.3 (3)	
4 ·	Pinch-Roller		,
5	Feed Roller	ction 8.3 (5)	
6	Assist Roller	ction 8.3 (6)	
7	Paper Path / Sheet Guide		
8	Glass		į
9	Document Sensor		į
10	-Frietion-Pad		- 1
11	Ventilation Port		
12	Fan		

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(1) Remove the pick rollers from the scanner (Refer to Section 8.4.3 "Replacing the Pick Roller") and clean them.

How to Clean the Pick Roller

Gently wipe the rollers so that the roller surface does not get damaged. Wipe along the grooves of the roller surface. Clean thoroughly because the feeding performance is affected especially when there is foreign matter stuck on the roller.

(2) Remove the separator roller from the scanner (Refer to Section 8.4.4 "Replacing the Separator Roller") and clean them.

How to Clean the Separator Roller

Gently wipe the rollers so that the roller surface does not get damaged. Wipe along the grooves of the roller surface. Clean thoroughly because the feeding performance is affected especially when there is foreign matter stuck on the roller.

(3) Remove the brake roller from the scanner (Refer Section 8.4.5 "Replacing the Brake Roller") and clean them.

How to Clean the Brake Roller

Gently wipe the rollers so that the roller surface does not get damaged. Wipe along the grooves of the roller surface. Clean thoroughly because the feeding performance is affected especially when there is foreign matter stuck on the roller.



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(4) Clean the pinch rollers (inside the top cover and paper path upper-side).

How to Clean the Pinch Roller

Gently wipe the rollers so that the roller surface does not get damaged. Clean the whole surface as you rotate the roller manually. Pinch rollers to be cleaned are located as shown below.

- Paper path upper-side (rollers: 6 locations x 5 units)
- Inside the top cover (rollers: 2 locations x 2 units)



Gently wipe off the rollers so that the roller surface does not get damaged. Clean the whole surface as you rotate the roller manually. Make sure to clean thoroughly because the feeding performance is affected especially when there is black foreign matter on the roller. Feed rollers to be cleaned are located as shown below.

- Paper path lower-side (rollers: 5 locations x 2 units)
- Inside the top cover (rollers: 2 locations x 2 units)



How to Clean the Assist Roller

Gently wipe the rollers so that the roller surface does not get damaged. Clean the whole surface as you rotate the roller manually. Make sure to clean thoroughly because the feeding performance is affected especially when there is black foreign matter on the roller.



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(7) Clean the paper path/sheet guide and scan glass

How to Clean the Paper Path/Sheet Guide and Scan Glass

Clean the area with a piece of cloth.

- 1) Vertical streaks may appear on the scanned image when the glass is dirty.
- 2) Remove the glass on paper path upper-side and lower-side to clean if the scanning result is not good.
- 3) If the paper path contains a large amount of paper dust, clean it with a vacuum cleaner.



(8) Clean the document sensor.

How to Clean the Document Sensor

Clean the sensors located inside the top cover, paper path upper-side and paper path lower-side. Their locations are as below:

Top view

Rotating parts



Fixed parts



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(9) Cleaning the Friction Pad How to clean the Friction Pad

Clean the friction pads located on the hopper table.



(10) Reset the cleaning counter.

For more information about how to reset the cleaning counter, refer to "xxxxx"



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8.4 Consumables

Consumables must be replaced periodically. It is recommended that the user keep a stock of new consumables and replace them before it reaches the end of the consumable life.

Some parts (other than the consumables) need to be replaced by a service engineer, depending on the type of documents scanned and how often the scanner is used. Refer to Section 8.5 "Periodical Replacement Parts".

8.4.1 List of Consumables

The following table shows the consumables used for the scanner which must be replaced periodically.

You can check the status of usage for each consumable on Operator Panel and replace the consumable before it reaches the end of the consumable life.

Refer to Section 9.9 for imprinter (option) consumables.

No.	Name	Part No.	Product No.	Suggested replacement cycle	Usage status check	How to replace
1	PICK ROLLER	PA03575-K011	0637911	600,000 sheets or one year		
2	SEPARATOR ROLLER	PA03575-K012	0637912	600,000 sheets or one year		
3	BRAKE ROLLER	PA03575-K013	0637913	600,000 sheets or one year		

*Note that the suggested replacement cycles are guidelines for using A4 (80 g/m^2 [20 lb]) wood-free or wood containing paper as these cycles vary depending on the type of papers scanned and how often the scanner is used and cleaned.

8.4.2 Checking and Resetting the Counters

- (1) Press the power button on the front of the scanner. $\iint [\text{Ready}]$ is displayed on the LCD.
- (2) Press the [Menu] button.
 - ∬ [Main Menu] is displayed on the LCD.
- (3) Press the [△] or [▽] button and select [Show/Clear Counters], then press [Enter] button to confirm. ∬ [Show/Clear Counters] is displayed on the LCD.
- (4) Press the [△] or [▽] button and check the counter.
 For more details about setting values, refer to "Items Configurable in the Main Menu".
 The counter will appear highlighted when the page count after replacing the consumable reaches 95% of the value configured in the Software Operation Panel.
- (5) After replacing the consumables or cleaning, select the highlighted counter with the [△] or [▽] button, and press the [Counter Reset] button (longer than 2 seconds).

 \iint The counter value will be reset to 0. For ink level, the value will be set to 100.



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8.4.3 Replacing the Pick Roller

NOTICE

There are two pick rollers. Make sure to replace both two units upon replacing them.

- (1) Remove all documents from the stacker.
- (2) Open the ADF. (Refer to Section 8.1.3 "Opening/Closing the ADF".)
- (3) Open the pick roller cover. Grab the tabs on the left and right side with your fingers and pull down the cover towards you.



(4) Pull the pick roller off the rotating shaft as you grab the tab on the pick roller (x^2) .



(5) Install a new set of pick rollers (x2) in the scanner.



- (6) Close the roller cover and make sure that both ends of the cover are locked firmly.
- (7) Close the ADF (Refer to Section 8.1.3 "Opening/Closing the ADF".
- (8) Reset the pick roller counter.

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8.4.4 Replacing the Separator Roller

- (1) Remove all documents from the stacker.
- (2) Open the ADF. (Refer to Section 8.1.3 "Opening/Closing the ADF".)
 (3) Open the roller cover. Grab the tabs on the left and right with your fingers and pull down the cover towards you.



(4) Pull down the lever which is located on the right-hand side, and then left-hand side of the separator roller.



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(7) Align the protrusion of the shaft with the groove of the separator roller to insert.



(8) Install the new separator roller on the scanner by inserting the right side of the shaft first, then the left side so that the tab fits in the groove.



(9) Push up the levers located on the left and then right side of the separator roller.



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(10) Close the roller cover. Make sure that both ends of the cover are locked firmly.



- (11) Close the ADF. (Refer to Section 8.1.3 "Opening/Closing the ADF".)
- (12) Reset the separator roller counter.

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8.4.5 Replacing the Brake Roller

- (1) Remove all documents from the stacker.
- (2) If the hopper has been raised, bring it back down to the lower position. (Refer to Section 8.1.5 "Setting the Loading Capacity of the Hopper".)
- (3) Open the ADF. (Refer to Section 8.1.3 "Opening/Closing the ADF".)
- (4) Open the Brake roller cover and lift up the cover from the lower middle.



(5) Remove the brake roller by lifting the left side of the roller first, and then pull out the shaft from left to right.



(6) Push the side of Brake roller with no shaft gear, and receive the pushed out shaft to remove.



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(7) Align the protrusion of the shaft and the Brake roller shaft, and then insert the shafts.



(8) Install a new brake roller on the scanner by inserting the shaft from the right side to the left.



- (9) Close the Brake roller cover. Make sure that both ends of the cover are locked firmly.(10) Close the ADF. (Refer to Section 8.1.3 "Opening/Closing the ADF".)
- (11) Reset the brake roller counter.



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8.5 Periodical Replacement Parts

The scanner contains the following parts which need periodical replacement. These parts need to be replaced before they reach the end of the consumable life.

<mark>No</mark>	<mark>Part Name</mark>	Part Number	<mark>Replacement</mark> Cycle	<mark>Quantity</mark>	Parts to be Replaced	Replacement Procedure	Adjustment Procedure
1	EX-KIT-300	PA03575-E991	3,000,000 sheets	1	Assist Roller		
					Feed Roller 2		
					Feed Roller 3		
					Feed Roller 4		
					Feed Roller 5		
			Feed Roller 6				
			EXIT Roller 1				
					EXIT Roller 2		
2	EX-KIT-500	PA03575-E992	A03575-E992 5.000.000 sheets 1 RV Roller 1				
				-	RV Roller 2		
					RV Roller 3		
					Feed Belt 1		
					Feed Belt 2		
					EXIT Belt 1		
					EXIT Belt 2		
					Stacker Under		
					Sheet		

RV Roller Feed Belt EXIT Belt Stacker Une Sheet

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8.6 Scanner Settings

8.6.1 Software Operation Panel

The Software Operation Panel (SOP) is an application where you can configure various settings for operating the scanner and managing the consumables. The Software Operation Panel (SOP) is installed together with the scanner drivers TWAIN and ISIS and the setting information is stored in EEPROM.

You can configure and check the following items using the Software Operation Panel.

- ♥!Diagnosis: Configure device setting. For more information, see Section "8.6.3.1".
- 🕸 ! Device Info: Various kinds of information about the device. For more information, see Section "8.6.3.2".

You cannot refer to [Device Info] or manage [Device Settings] on the [Properties] dialog box of [Scanners and Cameras] for this device.



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8.6.3 Software Operation Panel Items 8.6.3.1 Diagnosis



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FUJITSU Software	Operation Panel			
L TORC				
- 装置情報				
装置設定	続け	置の詳細情報:		
王 装置数定2	4	光記 マカンボードはあ	<u> </u>	
		ーベンダーID	FUJITSU	
		ープロダクトID	fi-6800dj	
		-ファーム版数(SDC)	0680	
		-ファーム版数(MUG) -ファーム版数(PLIC)	0686	
		一使用開始日	09/02/06	
		- スキャナ内メモリ	512 MB	
			0	
	Т	RD –		
	1			
			-	
			*****	1
			キャンセル 200円(A)	
		\mathbf{v}		
Device Info. (1/2)				
Function	Support		Remarks	
Standard Information				
Vendor Identification	FUHTSN			
Product Identification	fi-6800dj			
Firmware Ver.[SDC]	XXXX			
Firmware Ver.[MDC]	XXXX	İ		
Firmware Ver.[PUC]		İ		
Initial Use	YY/MM/DD			
Scanner Memory	512MB			
Serial Number				
Scanning Area				
Basic X Resolution	600dni			
Basic V Resolution	600dpi			
Maximum X Resolution	600dpi			
Maximum V Resolution	600dpi			
Minimum V Pasalutian	50dni			
Minimum X D === 1-4	50dr:			
Minimum Y Resolution	50api			
Window Width	/S00pixel			
1 117: 1 7 3	21070 1			
Window Length	21870pixel			

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Section 8.6.3.2

	■Device Info (2/2)		
	Function	Support	Remarks
Video	Output		
	Black and White Support	Yes	
	Dither/Halftone	Yes	
	Gray Scale Support	Yes	
	RGB Color Support	Yes	
Physica	al Function		
5	Operator Panel	Yes	
	Duplex	Yes	
	Transparency	No	
	Flatbed	No	
	Automatic Document Feeder	Yes	
	Buffering Capability	512MB	
Imagin	g		
	Brightness Steps	255 steps	
	Threshold Steps	255 steps	
	Contrast Steps	255 steps	
	Number Of Resident Dither	4	
	Number Of Registable Dither	2	
	Number Of Resident Gamma	4	
	Function		
	Number Of Registable Gamma	4	
	Function		
	White Level Follower	Yes	
	Sub Window	No	
	Error Diffusion	Yes	
On Boa	ard IPC	No	
	Reserve Image Format	Yes	
	Dynamic Threshold	No	
	Simplified DTC	Yes	
	Outline Extract	Yes	
	Image Emphasis	Yes	
	Automatic Separation	Yes	
	Selective Edge Emphasis	Yes	
	Mirror Image	No	
Compr	ession Function	Yes	
	MH	No	
	MR	No	
	MMR	No	
	JBIG	No	
	JPEG Base Line System	Yes	
	JPEG Extended System	No	
	JPEG Independent Function	No	
Endors	er [Post]	No	
Endors	er [Pre]	No	
Miscel	laneous		
	Sleep Mode	Yes	
	White/Black Background Switchable	Yes	
	Multifeed Detection	Yes	
	Dropout Color	Yes	
	Buffered Scan	Yes	
	Blank Page Detection	No	
	Page End Detection	Yes	
	Long Paper Scanning	Yes	
	Batch Detection	Ves	
	Skew detection	Vec	
	Calibration	No	
Interfe		SCSI/USB	
merra	Currently connected interface	USB2 0	
1	Currently connected interface	00002.0	I de la construcción de la construcción de la construcción de la construcción de la construcción de la constru

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8.6.3.3 Device Setting 1

FUJITS	SU Software Operation Panel				
	SU Software Operation Panel Diagnosis Device Info Device Setting Device Setting 2 Multifeed Multifeed Multifeed detection when s Page Edge Filler (ADF) Dopout color Pre-Pick Page Edge Filler (Automatic Document check area spe Intelligent Multifeed Functic Number of paper feeding re Retain current paper thickr Cleaning Cycle Useful life counter Set the interval for feeding Pick Speed Soft Pick Setting AutoCrop Boundary Auto color Detection Alarm setting	Page Counter: Total Page Count(ADF): After cleaning: Brake Roller: Pick Roller: Pick Roller: Page: Assist Roller: Ink Level:Front Ink Level:Back	pages pages pages pages Clear(1) pages Clear(2) pages Clear(3) pages Clear(4) pages 2 Clear(5) 2 15 minutes		
•	Main setting		Offset		
		ОК	Cancel Ap	oply (A)	
Device Setti	ng				
Item	Description	Setting/Value	Factory Default	Scanner SCSI	CGA board or USB
Page Counter (Consumables Counter)	Check the replacement cycle of the consumables and the total page count of the maintenance parts. Also use this function to reset the counters after replacing consumables and cleaning	Total page count (ADF)/After cleaning/ Brake Roller/Pick Roller/Separator Roller/Assist Roller Ink Level: Front/Ink Level: Back (only when imprinter is installed)	0 Only displayed when imprinter is installed	<u>م</u>	<u>۵</u>
Power saving	Specify the waiting time before entering Power saving mode	Range: 5 min. to 235 min. (in increments of 5 min.)	15 min.	스	ন
Offset	Adjust the position to start scanning for the specified scanning side(s).	Applied to: Connected via SCSI/USB Connector 1 ADF (Front)/ADF (Back) Connected via SCSI/USB Connector 2 ADF (Back)	Main/Sub: 0mm	ন	
Vertical Magnification Adjustment	Adjust the magnification level in feeding direction for the specified scanning method	Main/Sub: -2mm to 3 mm (in increments of 0.5mm) Applied to: ADF Setting range: -3.1% to 3.1% (in increments of 0.1%)	0%	소	হ

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FUJITSU Software Operation Panel

Diagnosis	^	Preferences	Value 1	1 -
- Device Info		Multifeed	Check Overlapping(Ul	
Device Setting 2		Multifeed detection when scanning in m	Disable	
Multifeed		Page Edge Filler (ADF)	T:0 B:0 R:0 L:0 mm	
- Multifeed detection when s		Dropout color	Green	
Page Edge Filler (ADF)		Pre-Pick	Yes	
- Dropout color	-	Page Edge Filler (Automatic Page Size	T:0 B:0 R:0 L:0 x0	
- Pre-Pick	-	Document check area specification for		
Page Edge Filler (Automatic		Left		4
Document check area spe		- Modes of Selection	Specify non-detection	
 Intelligent Multifeed Functic 		- Specify area	0 - 0 mm	
 Number of paper feeding re 		Middle		
		- Modes of Selection	Specify non-detection	
Cleaning Cycle		- Specify area	0 - 0 mm	
		Right		
Piek Speed		- Modes of Selection	Specify non-detection	
Soft Pick Setting		- Specify area	0 - 0 mm	
AutoCrop Boundary		Intelligent Multifeed Function	Manual mode Do not	
- Auto color Detection		Number of paper feeding retries	10 times	-
- Alarm setting	Ŧ	Default	Save Bestore	
4			Cancel Applu (~
				A)
SFU	C			

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■ Device Setting 2

			Factory	Scanner	CGA Board
Item	Description	Setting/Value	Default	SCSI or	USB
	Specify a method for multifeed	None/Check Overlanning	Check	Conneo	ctor
Multifeed	detection. Detect by monitoring the overlapping, the document length, or the combination of both. It can also be configured from the scanner driver's setup dialog box. Note that priority is given to the scanner driver setting.	[Ultrasonic]/Check Length/Check Overlapping and Length (when detecting from the length difference, select from 10/15/20 mm)	Overlapping [Ultrasonic]	0	0
Multifeed detection when scanning in manual feed mode	Enable multifeed detection when using Manual Feed mode. It can also be configured from the operator panel.	For SCSI or USB Connector 1: Disabled/Follow driver settings For SCSI or USB Connector 2: Disabled/Follow Multifeed settings	Disable	0	0
Page Edge Filler (ADF)	Specify a width for the margin off the edge of the scanned image to fill in black or white. The margins are filled in white when the background is white and filled in black when the background is black. It can also be configured from the scanner driver's setup dialog box. Note that the priority is given to the setting with a larger value. This setting does not appear when Kofax VRS is used.	Top/Left/Right: 0 mm to 15 mm Bottom: -7 mm to 7 mm (in increments of 1 mm) A A A A B A A A B A A B A A B A A B A A B A A B A A B A A B A A B A A B A A B A A B A A B A A B A A A B A A B A A A B A A A A B A	Top/Bottom/Lef t/Right 0 mm	0	
Dropout Color	Select a color to be dropped out from the scanned image (black & white/grayscale only). It can also be configured from the scanner driver's setup dialog box. Note that priority is given to the setting with a larger value.	Red/Green/Blue/White	Green	0	_
Pre-pick	Select [Yes] to prioritize the processing speed and [No] for otherwise. It can also be specified from the scanner driver's setun dialog box. Note that priority is given to the scanner driver setting.	Yes/No	Yes	0	_
Page Edge Filler (Automatic paper size detection)	Specify a range of area to fill in when Automatic paper size detection is selected. Specify a width for the margin off the edge of the scanned image to fill in black or white. It can also be configured from the scanner driver's setup dialog box. Note that priority is given to the setting with a larger value.	Top/Bottom/Left/Right: 0 mm to 7.5 mm (in increments of 0.5 mm) A A A A B (A: Image, B: Filled area, A+B: Output	Top/Bottom/Lef t/Right: 0 mm	0	
Document check area specification for Multifeed Detection	Selected range: Select this item to restrict the area to be run multifeed detection on. Enable/Disable (Left/Middle/Right): Specify whether to enable or disable multifeed detection for the specified area. Start: Specify the start point of the check area in length (mm) from the top edge of the document.	[Selected range] check box Enable/Disable (when [Selected range] is selected 0 mm to 510 mm (in increments of 2 mm)	Not selected Disable 0 mm	0	0
	check area in length (mm) from the top edge of the document.	of 2 mm)	0 mm		

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■ Device Setting 2 (Cont'd)

Itom	Description	SottingWoluo	Factory	Scanner	CGA Board
Item	Description	Setting/ Value	Default	SCSI o Conr	or USB lector
Intelligent Multifeed Function	When there a paper of the same size attached to a designated location on the page, configure the scanner to memorize the location of the attachment and not detect the location as multifeed. Note that you first need to select [Check Overlapping (Ultrasonic)] for multifeed detection setting fron the scanner driver's setup dialog box. It can also be configured from the operator panel	Manual mode/Auto mode 1/Auto mode 2	Manual mode	0	0
	Select to clear the overlap pattern (length, location) memorized in Auto mode.	[Clear overlap pattern] check box	Not selected		
	Specify whether to enable or disable the [Scan] button when using Kofax VRS.	Enable Scan button (VRS)	Disable		
	Select to specify whether or not to memorize the multifeed pattern in the window that shows the multifeed image.	[Auto-Memorize MF Pattern (Only when multifed image is displayed)] check box	Not selected		
	Specify whether or not to memorize the multifeed pattern at power-off.	Remember/Do not remember	Do not remember		
Number of paper feeding retires	Configure this setting to reduce the number of feeding retires upon pick errors. It can also be configured from the operator panel.	1 to 12 times	10 times	0	0
RetainingtheCurrentPaperThicknessafterPower off	Specify whether or not to keep the operator panel's paper separation force setting upon turning the power off.	Remember/Do not remember	Do not remember	0	0
Cleaning Cycle	 Specify the cycle for cleaning the scanner. Changes in the value specified here and the background color of page counter (consumable counter) are as below. The background color of the counter changes to yellow when the page count after cleaning reaches 100% or higher of the value specified in this setting. Also specify whether or not to show a message for cleaning from the scanner driver. 	1.000 to 255,000 sheets (in increments of 1,000) [Show cleaning instructions] check box	10,000 sheets Not selected	0	0
Useful Life Counter	 Specify the replacement cycles for the consumables. Changes in the value specified here and the background color of page counter (consumable counter) are as below: The background color of the counter changes to light yellow when the page count after cleaning reaches 95% of the value specified here. The background color of the counter turns to yellow when it reaches 100% or higher of the value specified here. 	Each consumable 10,000 to 2,555,000 sheets (in increments of 10,000)	600,000 sheets	0	0
Setting the interval for feeding	If the bottom of the scanned image is partially missing due to a large skew when scanning in Automatic page size detection, specify a longer interval to feed the documents. Specifying a longer interval leaves more time between each document to be scanned.	Short (default) – Long (1 to 4 levels)	Short (default)	0	0

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■ Device Setting 2 (Cont'd)

Itana	Description		Factory	Scanner	CGA Board
Item	Description	Setting/value	Default	SCSI o Conn	or USB ector
Pick Speed	When multifeeds or paper jams occur frequently, enable this setting to slow down the speed (pick speed) in which the documents are fed. It can also be configured from the operator panel.	Normal/Slower	Normal	0	0
Soft Pick Setting	When documents are skewed or multifeeds occur frequently, the symptom may be improved by bringing down the pick roller unit and keeping the unit at the lower position (Soft Pick Setting). It can also be configured from the operator panel.	Enable/Disable	Disable	0	0
AutoCrop Boundary	Specify whether or not to optimize (round up/down) the fractional part of the scanned image data.	Normal/Optimize	Normal	0	
Auto Color Detection	Specify the slice level for automatic color/monochrome detection.	1 to 255 levels	5	0	
Alarm setting	Specify whether or not to sound an alarm when an error such as multifeed or paper jam occurs. It can also be configured from the operator panel.	Disable alarm/Low volume alarm/High volume alarm	Disable alarm	0	0
Jam Detection outside of Scannable Area when Transporting Paper	Specify whether or not to judge the symptom as paper jam when a document is skewed and passes outside the supported scanning area.	Enable/Disable	Enable	0	0
Imprinter selection	Specify which imprinter to use when you have installed both Front-Side Imprinter and Back-Side Imprinter. It can also be configured from the scanner driver's setup dialog box. Note that the priority is given to the scanner driver setting.	Normal (obey Host specification)/Forcible select Front-Side Imprinter /Forcible select Back-Side Imprinter (only when the Imprinter option is installed)	Normal (Obey Host specification)	0	0
Timeout for Manual Feeding	Specify the waiting time to cancel manual feeding.	When connected via SCSI/USB Connector 1: 5, 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 180, 240, 300, 360, 420, 480, 540, 600, 900, 1200, 1500, 1800, 1999 (seconds) When connected via CGA, SCSI/USB Connector 2: 5, 10, 20, 30 (seconds)	10 seconds	0	0
Paper Protection	Specify whether to enable or disable the paper protection. When this setting is enabled, you can have the scanner detect a folded document or a thin paper that is not being fed by the rollers properly and stop the scan. Paper protection is disabled in Manual Feed mode. It can also be configured from the scanner driver's setup dialog box or the operator panel. Note that priority is given to the scanner driver setting unless you have prioritized the operator panel setting.	Enable/Disable	Enable	0	0
Paper Protection Sensitivity	When paper protection is enabled, you can specify the level of sensitivity to detect a folded document or a think paper that is not being fed by the rollers properly and stop the scan. It can also be configured from the operator panel. Note that you can prioritize the operator panel setting.	Low/Normal/High	Normal	0	0

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■ Device Setting 2 (Cont'd)

				Seemen	CGA
Item	Description	Setting/Value	Factory Default	Scaller	Board or USB
			Delaun	Conn	ector
Staple Detection	Specify whether to enable or disable the staple detection. When you enable this setting, the scanner detects stapled documents as error documents, and prevent the stapled section of the documents from being torn apart (documents being separated). Staple detection is disabled in Manual Feed mode. It can also be configured from the scanner driver's setup dialog box or the operator panel. Note that priority is given to the scanner driver setting unless you have prioritized the operator panel setting.	Enable/Disable	Enable	0	0
Staple Detection Range/Sensitivity	When staple detection is enabled, you can specify the range (area) and the level of sensitivity in which the stapled documents are detected. It can also be configured from the operator panel. Note that you can prioritize the operator panel setting.	Range: Both top and bottom edges/Top edge/Bottom edge Sensitivity: Low/Normal/High	Range: Both top and bottom edges Sensitivity: Normal	0	0
Scan Setting for Documents with Tabs (Automatic Paper Size Detection)	For documents with index tabs or index stickers attached on the bottom of the page, you can keep the tab (index or index stickers) on the scanned image when scanning in automatic paper size detection. The scanning speed slows down slightly if [Document with tab] is selected.	When connected via SCSI or USB Connector 1: Document with tab/Document without tab/Non-rectangular document When connected via CGA SCSI or USB Connector 2: Document with tab/Document without tab	Document without tab	0	0
Scan Setting for Document with Dark Background Color	Configure this setting when the edges of a document with dark background color are falsely detected. You can specify the level of sensitivity to accurately detect the edges of documents with dark backgrounds.	Enable/Disable Density of ground color: 1 to 5 (level)	Disable	_	0
Overcrop/ Undercrop	Adjust the size of the scanned document output image detected m [Automatic Paper Size Detection].	Over: 0 mm to 5 mm (in increments of 1 mm) Under: -5mm to 0 mm (in increments of 1 mm)	0mm	_	0
Maintenance and Inspection Cycle	Specify the cycle for scanner maintenance and inspection to be performed by a service engineer. When the specified period elapses since the last periodical maintenance and inspection, a message for periodical maintenance appears.	Disable/Enable Maintenance/Inspection cycle: 1 month to 12 months	Disable	0	0
Multi dropout colors	Specify a color to be dropped out from the scanned image (black & white/grayscale mode only). You can select any color(s) to drop out in [Multi dropout colors]. Note that priority is given to the scanner driver setting if any dropout color has been specified in the scanner driver's setup dialog box.	Use driver settings/Custom	Use driver settings		0
Overscan Control	Outputs the image in the optimum position when the image is partially missing due to a large skew.	Normal/Optimize Black frame thickness: Small (normal) to Large (1 to 3 levels)	Normal	0	—

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Chapter 9 fi-680PRF/fi-680PRB Imprinter

9.1 Imprinter Specification

9.1.1 Printing Specification

Refer to Section 1.1.2 "Scanner Specification".

9.1.2 Environmental Specification

Refer to Section 1.1.3 "Environmental Specification".

9.1.3 Appearance and Names of Component Parts

Refer to Section 1.1.4 "Appearance" for the scanner section.

<Appearance of Scanner>

With fi-680PRF (Front-Side) Imprinter installed

The appearance is the same as that for the scanner section because the fi-680PRF is installed internally.



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9.2 Operation

9.2.1 Operation

When the power is turned ON, the scanner firmware checks if the Imprinter EXT cable is connected to the scanner. If the EXT cable is connected, the firmware judges that the Imprinter is installed, and then starts controlling the print head and sensors, and driving the Feed rollers by the Feed motor.

TBD

To prevent the Print section and ADF c open the ADF cover. When closing then If Print cartridge replacement message

each other, open the Print section of the Imprinter first and then rder.

nonitor, replace the cartridge, and then reset the Remaining ink

9.2.2 Block Diagram

counter (Section 8.9.4).



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9.3 Unpacking and Installation of Imprinter

9.3.1 Unpacking

Table below shows the components list for the Imprinter.

(1)11-0001 KI (11011-310c) 11101111c	(1)f1-680PRF	(Front-Side) Imprinte
--------------------------------------	--------------	-------------	------------

No.	Description	Part No.	Quant ity	Remarks
1	Control PCA	PA03575-F740	1	
2	Front-Side Imprinter Junction PCA	PA03575-F720	1	
3	Holder Unit	PA03575-F700	1	
4	IM Holder Rail	PA03575-Y706	1	
5	IM Holder Shaft	PA03575-Y705	1	
6	Shaft Stopper	PA03575-Y322	1	
7	IMP-F Cable	PA70002-5394	1	
8	Felt Set	PA03575-F035	1	
9	Operator's Guide	P3PC-2512-XXXX	1	
10	Installation Guide	P2PC2642-XXXX	1	
11	Print Cartridge	CA00050-0262	1	
12	IMP-F Label	PA93008-Y858	1	
13	Screw	U30L-0010-0030#M3	1	
14	Screw	RU6SW2N3-08121	5	
15	Tapping Screw	PA83952-2638	4	
			$\langle \rangle$	

	(2) fi-680PRB (Back-Side) Imprinter			
No.	Description	Part No.	Quantity	Remarks
1	Control PCA	PA03575-F740	1	
2	Back-Side Imprinter Junction PCA	PA03575-F730	1	
3	Holder Unit	PA03575-F700	1	
4	IM Holder Rail	PA03575-Y706	1	
5	IM Holder Shaft	PA03575-Y705	1	
6	Shaft Stopper	PA03575-Y322	1	
7	IMP-B Cable	PA70002-5395	1	
8	Clamp	PA83952-1202	1	
9	Clamp	PA83951-2901	2	
10	Imprinter Top Cover	PA03575-F666	1	
11	Felt	PA03575-Y175	1	
12	Operator's Guide	P3PC-2512-XXXX	1	
13	Installation Guide	P3PC-2700-XXXX	1	
14	Print Cartridge	CA00050-0262	1	
15	Screw	U30L-0010-0030#M3	1	
16	Screw	RU6SW2N3-08121	4	
17	Tapping Screw	PA83952-2638	3	
18	Ferrite Core	PA53003-0339	1	

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9.3.2 Installing the Imprinter 9.3.2.1 fi-680PRF (Front-Side) Imprinter

<Installation Procedure>

- (1) Turn off the scanner (Refer to Section 8.1.1 "Turning the Power ON/OFF") and remove the power cable.
- (2) Remove the Hopper Unit. (Refer to Section 6.7.1)
- (3) Remove the RV Cover L. (Refer to Section 6.8.3.)
- (4) Remove the FX Cover L. (Refer to Section 6.8.1.)
- (5) Remove four screws (circled) securing the RV Side Cover L, and then remove the RV Side Cover L.



(6) Attach the Control PCA board to the space framed by the dotted line with four screws (circled), and then connect the CT-RV cable located on the side of the scanner and the provided IMP-F cable (2 connectors).



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Section 9.3.2.1

(7) Wire the IMP-F cable along the dotted line (2 cable clamps) through the hole of the RV Frame into the Paper Path Unit.



After wiring and clamping the IMP-F cable, pull the motor connector to check that the clamp does not come off.



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(8) Remove the IMP-GUIDE-SHEET attached inside of the Feeder Unit.



(9) Attach the IM Holder Rail to the inside of the Feeder Unit with two tapping screws (circled).



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									Drawing No.	P1PA03575-B0XX/6		
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(10) With the ADF closed, insert the IM Holder Shaft into the hole on the left side of the device.



(11) Open the Feeder Unit and pass the IM Holder shaft through the Holder Unit hole shown in the picture below.



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									Drawing No.	P1PA03575-B0XX/6		
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- (12) Insert the Holder Shaft into the RV Frame hole following in the procedure below:
 - D Insert into the smaller hole located at the rear right of the RV Frame.
 - (E) Insert into the smaller hole located at the rear left of the RV Frame.
 - F Check that the tab on the Holder Unit and the edge of the IM Holder Rail are aligned.



(13) Fix the IM Holder Shaft with the Shaft Stopper.



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Section 9.3.2.1

(14) Insert the IMP-F cable and the FPC cable of the Holder Unit into the Front-Side Imprinter Junction PCA board.



(15) Check that the FPC Cable is inserted up to the guide line and fix the transparency film part of the FPC cable into place with a screw (U30L-0010-0030#M3).



(16) Fix the Front-Side Imprinter Junction PCA unit with two tapping screws (circled).

Insert the IM-FG-SHEET between the [RV Guide 2] and [RV-FRAME] and fix it when installing the Front-Side Imprinter Junction PCA.

Check that the IM-FG-SHEET has been installed correctly by referring to <<Checking method for IM-FG-SHEET mounting location>>.



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<<Checking method for IM-FG-SHEET mounting location>> Be sure to check whether the IM-FG-SHEET is installed onto the proper position.

1. Open the ADF about 100mm.

2. Open the Top Cover.



3. Check the red frame area. The IM-FG-SHEET must be hidden.



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(17) Attach all the covers back by reversing the removal procedure.

RV Side Cover-L

RV Cover-L (Refer to Section 6.8.3) FX Cover-L (Refer to 6.8.1)

(18) Open the ADF unit, remove the two screws (circled) securing the FIX Guide 3 and take out the FIX Guide 3.



(19) Attach the Felt Set by fixing it with a screw.



(20) Attach the FIX Guide 3 back by reversing the removal procedure.



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										Drawing No.	P1PA03575-B0XX/6		
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9.3.2.2 fi-680PRB (Back-Side) Imprinter

<Installation Procedure>

- (1) Turn off the scanner (Refer to Section 8.1.1 "Turning the Power ON/OFF") and remove the power cable.
- (2) Remove the Hopper Unit. (Refer to Section 6.7.1)
- (3) Remove the RV Cover-L. (Refer to Section 6.8.3.)
- (4) Remove the four screws securing the RV Side Cover-L, and then remove the RV Side Cover-L.



(5) Remove the top cover by taking out the right and left screws (2 screws) fixing the top cover into place.



(6) Remove the IMP-GUIDE SHEET attached inside of the Top Cover.



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									Drawing No.	P1PA03575-B0XX/6		
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(7) Remove two tapping screws securing the stiffening sheet metal, and then remove the stiffening sheet metal and EXIT-FG-SPRING2.



(8) Attach the Back-Side Imprinter Junction PCA and EXIT-FG-SPRING2 to where the stiffening sheet metal was fixed with three tapping screws.





(10) Attach the Control PCA board to the space framed by the dotted line with four screws, and then connect the CT-RV cable located on the side of the scanner and the provided IMP-B cable (2 connectors).



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(11) Open the power section by removing the nine screws fixing it into place, and remove the FAN Cable Connector and the two CT-POW cable clamps of the power connector.

Be careful when opening and closing the power section as the excess cable length of the FAN Cable and the CT-POW cable is shortened by clamps.



(12) Wire the IMP-B Cable along the dotted line (3 cable clamps) through the B hole of the RV Frame and pull it out on the back side of the scanner.

NOTICE

When wiring the IMP-B Cable, be sure that the nylon band comes to the front of the cable clamp.



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										Drawing No.	P1PA03575	5—E	BOXX/6
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After wiring and clamping the IMP-B cable, pull the motor connector to check that the clamp does not come off.



Pull the connector to check that the clamp does not come off.

(13) First attach the clamp to the back of the device and fix the cables with the clamp before wiring the IMP-B Cable along the dotted line into the top cover.



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										Drawing No.	P1PA03575	5—В	80XX/6
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Section 9.3.2.2

(14) Fix the IMP-B Cable with a clamp after passing it through the EX-TOP Frame cutout, and wire it along the dotted line.



(15) Attach the IMP-B Cable to the Back-Side Imprinter Junction PCA connector with two clamps.

NOTICE

Wire the IMP-B cable so that it does not come in front of the cut-and-raised part.



(16) Attach the Ferrite core on the IMP-B Cable between the cut-and-raised parts.



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										Drawing No.	P1PA03575	5-E	30XX/6
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Section 9.3.2.2

(17) Attach the power section back in place with nine screws after fixing the CT-POW cable with two clamps (boxed) and the FAN Cable Connector.



(18) Insert the IM Holder Shaft into the Holder Unit.

NOTICE

When inserting the IM Holder Shaft, make sure that the shorter thin part is towards the FPC Cable.



(19) Open the Top Cover slightly and insert the IM Holder shaft into the EX-TOP frame hole the right side first (1), followed by the left side (2).

Check that the Holder Unit is moving smoothly on top of the IM Holder Rail.





Check that the Holder Unit is moving smoothly on top of the IM Holder Rail.

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(20) Insert the FPC Cable into Back-Side Imprinter Junction PCA and fix it with a screw (U30L-0010-0030#M3).
 (21) Insert and fix the Shaft Stopper into the right side of the IM Holder Shaft.



(22) Latch the four tabs on [A] sections, and install the Imprinter top cover by pushing two [B] sections from above.



(23) Open the Top Cover, and fix the Imprinter Top Cover with screws (one at each side).



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- (24) Attach all the covers back by reversing the removal procedure.
 - RV Side Cover-L
 - RV Cover-L (Refer to Section 6.8.3)
- (25) Open the Top Cover, remove the two tapping screws securing the EXIT Guide U, and remove the FG Spring L and FG Spring R.



(26) Open the Output Unit and remove the EXIT Guide U by taking out its hooks



(27) Attach the Felt with double-sided tape.



(28) Attach the EXIT Guide U back by reversing the removal procedure.

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9.4 Maintenance Parts for Imprinter

No.	Description	Part Number	Quai	ntity	Appearance (Section)	Replacement Procedure (Section)	Adjustment	Remarks
1	CONTROL PCA	PA03575-D980	1		<u>9.4.2.1</u>	<u>9.6.3.1</u>	_	
2	HOLDER UNIT	PA03575-D983	1		<u>9.4.2.2</u>	FX: <u>9.6.3.2</u> RV: <u>9.6.3.6</u>	_	
3	JUNCTION PCA	PA03450-F926	1		<u>9.4.2.3</u>	FX: <u>9.6.3.3</u> RV: <u>9.6.3.7</u>	—	
4	FELT	PA03575-D985	1		<u>9.4.2.4</u>	FX: <u>9.6.3.4</u> RV: <u>9.6.3.8</u>		
5	TOP COVER IMP	PA03575-D979	1		9.4.2.5	9.6.3.5	_	

9.4.1 Maintenance Parts List

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										Name	fi-6800/f Maintenar	i-668 nce N	BPR Manual
										Drawing No.	P1PA0357	5-E	30XX/6
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9.4.2 Maintenance Parts Descriptions / Appearance

9.4.2.1 Control PCA

Description	Part Number	Replacement Procedure	Remarks
CONTROL-PCA	PA03575-D980	<mark>9.6.3.1</mark>	



9.4.2.2 Holder Unit

N/	

Description	Part Number	Replacement Procedure	Remarks
HOLDER-UNIT	PA03575-D983	FX: 9.6.3.2 RV: 9.6.3.6	



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										Drawing No.	P1PA03575	5—В	0XX/6
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9.4.2.3 Junction PCA

Description	Part Number	Replacement Procedure	Remarks
JUNCTION-PCA	PA03450-F926	FX: 9.6.3.3 RV: 9.6.3.7	
		DOTAA MAR - EE YAUP	

9.4.2.4 Felt		7	\sim
Description	Part Number	Replacement Procedure	Remarks
FELT	PA03575-D985	FX: 9.6.3.4 RV: 9.6.3.8	
9.4.2.5 Imprinter Top Cover			
Description	Part Number	Replacement Procedure	Remarks
TOP-COVER-IMP	PA03575-D979	<mark>9.6.3.5</mark>	



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9.5 Troubleshooting

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9.6 Maintenance Procedure

This chapter explains the precautions needed before maintenance, removing and attaching covers, and replacing the maintenance parts for the Imprinter.

9.6.1 For Safety Operation

Periodic inspection of the Imprinter shall be performed with the same timing of the scanner inspection or once a year.

Precaution before maintenance:

- Thoroughly clean the area where the unit is disassemble/assemble before working.
- Follow the disassembly and assembly instructions carefully. Do not loosen the screws on the non-disassembly parts.
- Store the disassembled parts so as not to lose them.
- Check the condition and parts count after replacement.
- Assemble the unit in reverse order of disassembly.



Machine damage

Static Electricity may cause the damage to the scanner and imprinter. When repairing circuit boards such as system board main control board, wear a wrist strap or dielectric mat to avoid ESD.

Injury

Be careful not to get your fingers, hair, clothes or accessories caught in moving parts of the unit. It may cause injury.

For detail cleaning method for the imprinter, refer to Section 9.8 "Imprinter Daily Care".

9.6.2 Maintenance Tools

Table below lists tools for maintenance of the Imprinter.

No.	Tools	Remarks	Purpose
1	Philips screw driver		For M3 and M4 screws
2	Small flat-blade screwdriver		For removing E-ring
3	Pliers		For removing clamp, assembling E-ring
4	Alcohol		For cleaning
5	Cloth	Bleached cloth or nonwoven fabric	For cleaning

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9.6.3 Replacing the Parts in the Print Section

9.6.3.1 Control PCA

Refer to Section 9.4.2.1 for the part number and appearance of the Control PCA.

<Removal>

- (1) Remove the following parts.
 - FX Cover L (Refer to Section 6.8.1.)
 - RV Cover L (Refer to Section 6.8.3.)
 - RV Side Cover L (Refer to step (2) in Section 6.13.6.)
- (2) Disconnect three connectors (enclosed with squares) connected to the Control PCA.
- (3) Remove four screws (circled) securing the Control PCA to remove the Control PCA.
- (4) Detach the EEPROM (enclosed with square) from the Control PCA, and attach it to the new Control PCA. The EEPROM contains the number of the printed sheets by the current print cartridge.



<Installation>

Follow the above procedure in reverse.

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NOTICE

Refer to Section 9.4.2.2 for the part number and appearance of the Holder Unit.

<Removal>

- (1) Perform the following:
 - Remove the Hopper Unit. (Refer to Section 6.7.1.)
 - Remove the FX Cover L. (Refer to Section 6.8.1.)
 - Remove the RV Cover L. (Refer to Section 6.8.3.)
 - Remove the RV Side Cover L. (Refer to step (2) in Section 6.13.6.)
 - Open the Paper Path Unit. (Refer to step (2) in Section 6.7.2.)
- (2) Move the Print Cartridge Holder to the convenient position to work on, and open the Print Cartridge Holder cover to remove the Print Cartridge.



(3) Remove two screws (circled) securing the Scale Guide to remove the Scale Guide.



(4) Disconnect the FPC Cable from the Junction PCA carefully.



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Section 9.6.3.2

(5) Remove a white retaining ring, and move the Holder Shaft in the direction of the arrow.



(6) Remove the Holder Shaft from the hole at left side of the scanner (circled) while the ADF is closed, and remove the Holder Unit from the scanner



NOTICE

Pay attention to the following when installing the Holder Unit.



NOTICE

Check that the FPC Cable is inserted up the guide line.



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NOTICE

Refer to Section 9.4.2.3 for the part number and appearance of the Junction PCA.

<Removal>

- (1) Perform the following:
 - Open the Paper Path Unit. (Refer to step (2) in Section 6.7.2.)
 - Remove the FPC Cable. (Refer to steps $(2) \sim (4)$ in Section 9.6.3.2.)
- (2) Disconnect a connector (enclosed with square) from the Junction PCA.



(3) Remove a screw (circled) securing the Junction PCA to remove the Junction PCA



<Installation> Follow the above procedure in reverse.

- NOTICE

Check that the FPC Cable is inserted up the guide line.



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9.6.3.4 Felt (Front-Side Imprinter) <<TBD>>>

NOTICE

Refer to Section 9.4.2.4 for the part number and appearance of the Felt.

<Removal>

- (1) Open the ADF. (Refer to Section 8.1.3.)
- (2) Remove the FIX Guide 3. (Refer to step (2) in Section 6.12.9.3.)
- (3) Remove the Felt from the Felt Plate.



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9.6.3.5 Imprinter Top Cover

NOTICE

Refer to Section 9.4.2.5 for the part number and appearance of the Imprinter Top Cover.

<Removal>

- (1) Open the Top Cover. (Refer to Section 8.1.4.)
- (2) Remove two screws (circled) and unlatch four tabs (enclosed with square) to remove the Imprinter Top Cover.



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NOTICE

Refer to Section 9.4.2.2 for the part number and appearance of the Holder Unit.

<Removal>

- (1) Remove the Imprinter Top Cover. (Refer to Section 9.6.3.5.)
- (2) Move the Print Holder Cartridge to the convenient position to work on, and open the Print Cartridge Holder cover to remove the Print Cartridge.



(4) Remove a white retaining ring, open the Top cover slightly, and then move the Holder Shaft in the direction of the arrow.



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(5) Remove the Holder Shaft from the Holder Unit, and then remove the Holder Unit from the scanner.



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9.6.3.7 Junction PCA (Back-Side Imprinter)

Refer to Section 9.4.2.3 for the part number and appearance of the Junction PCA.

<Removal>

- (1) Remove the Imprinter Top Cover. (Refer to Section 9.6.3.5.)
- (2) Disconnect a connector (enclosed with square) and the FPC Cable from the Junction PCA carefully.



(3) Remove a screw (circled) securing the Junction PCA to remove the Junction PCA



<Installation> Follow the above procedure in reverse.

Be sure to insert the FPC Cable all the way into the connector. (Refer to installation procedure in Section 6.9.2.)

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9.6.3.8 Felt (Back-Side Imprinter) <<TBD>>

NOTICE

Refer to Section 9.4.2.4 for the part number and appearance of the Felt.

<Removal>

- (1) Remove the FG Spring L, FG Spring R and Exit Guide U. (Refer to steps $(1) \sim (2)$ in Section 6.13.11.2.)
- (2) Remove the Felt from the EXIT-UNDER Unit.



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9.7 Adjustment / Setting

9.7.1 Positioning the Print Cartridge

Position the print cartridge for printing as follows.

<Front-Side Imprinter>

- (1) Open the Top Cover and lift up the Output Feeder Unit by referring to Section 9.8.1.1 "Installing the Print Cartridge Front-Side Imprinter>".
- (2) Align the print position pointer with the print position mark where printing should be started.



1. Do not set a print cartridge at the non-printable area. Otherwise, the document may be smudged with ink.

- 2. Place paper for actual printing in the stacker, and make sure that the print cartridge is positioned within the document width.
 - (3) Close the Output Feeder Unit and then the Top Cov

<Back-Side Imprinter>

- (1) Open the Top Cover by referring to Section 9.8.1.1 "Installing the Print Cartridge <Back-Side Imprinter>".
- (2) Align the top of the print position pointer with the print position mark where printing should be started.



- 1. Do not set a print cartridge at the non-printable area. Otherwise, the document may be smudged with ink.
- 2. Place paper for actual printing in the stacker, and make sure that the print cartridge is positioned within the document width.
 - (3) Close the Back-Side Imprinter Cover.

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9.7.2 Print Setup You can configure the print setup for the Imprinter on the scanner driver setup dialog box.

TWAIN Driver (32)			x
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	Setting Files: 00 : Current Set	tting	Config
	Resolution S	Gcan Type:	
	🔎 300 x 300 🔹	ADF (Front Side)	-
		Paper Size:	
7	Predefine	Letter (8.5x11in)	→
9	Enable Software IPC		
	Front	Individual Setting	lage
13	Image Mode:	Brightness	
	A= Black & White		128
	Black Au/bite:	Threshold:	
	Static Threshold		128
Scanning Area[inch]	Halftone:	Contrast:	•
Vidth: 2.500 Length: 11.000			128
	Prescan	A	dvance
Scan Preview	1		
OK Reset	Option	Help	About
(AIN driver. Press [F1] key to show help.		Data Size abo	ut: 1.1MB
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9.8 Imprinter Basic Operation

9.8.1 Basic Operation

9.8.1.1 Installing the Print Cartridge

Install the print cartridge as follows.

<Front-Side Imprinter>

- (1) Make sure that the scanner power cable is unplugged from the outlet.
- (2) Push up the top cover release tab with your fingers to open the Top Cover.
- (3) Lift the Output Feeder Unit.



- (4) Move the print cartridge holder to a location where a print cartridge can be installed easily.
- (5) Open the Print Cartridge Holder cover.

Step 4

Press the release tab to release the lock. Open the cover to the left.



- (6) Remove the new print cartridge from its pouch.
- (7) Remove the protection tape.

Step 6



Step 7



Do not touch the metal part of the cartridge nor put the tape back on again.

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- (8) Insert the print cartridge into the print cartridge holder.
- (9) Gently close the print cartridge holder on the right side until it is locked, to fix the print cartridge.

Step 8



Step 9

Insert the print cartridge with the tab on the right side. Be careful not to let the print cartridge touch or catch on to the FFC.

- (10) Align the top of the print position pointer with the print position mark where printing should be performed on the document.
- (11) Close the Output Feeder Unit and then the Top Cover.
- (12) Turn on the scanner.

- m

(13) Reset the ink level counter as follows.

You must reset the ink level counter whenever you replace the print cartridge

The ink level counter can be reset from the operator panel. For details, refer to Section 8.4.2 "Confirming replacement time and resetting the consumable counter".

- 1. Click the [Start] menu → [All Programs] → [Scanner Utility for Microsoft Windows] → [Software Operation Panel].
 - → The [FUJITSU Software Operation Panel] window appears.
- 2. Click [Device Setting] from left side list in the window.

Ē	Alagnoois A			
-	ALCO HES	Page Counter:		
	Insta Sating 3	Total Page Count(ADF)	0 pages	
	Muhleed		anger-	
	- Multileed detection when a	After cleaning	0 pages	Clear(1)
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	- Pick Speed	Pount sector		
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	AutoCrop Boundary		. 1	5 minutes
	Auto color Detection			32210
ie.			313	Offset

- 3. Click the [Clear] button for [Ink Post].
- 4. Click the [OK] button on the confirmation dialog box.
- \rightarrow The value of the [Ink Post] counter is set to 100.
- 5. Click the [OK] button on the [FUJITSU Software Operation Panel] window.

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<Back-Side Imprinter>

- (1) Make sure that the scanner power cable is unplugged from the outlet.
- $(2) \quad \text{Open the Back-Side Imprinter cover by pressing the cover tab.}$
- (3) Move the print cartridge holder to a location where a print cartridge can be installed easily.



Do not touch the metal part of the cartridge nor put the tape back on again.

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- (7) Insert the print cartridge into the print cartridge holder.
- (8) Gently close the print cartridge holder on the left side until it is locked, to fix the print cartridge.



Insert the print cartridge with the tab on the left side.

Be careful not to let the print cartridge touch or catch on to the FFC.

- (9) Align the top of the print position pointer with the print position mark where printing should be performed on the document.
- (10) Close the Back-Side Imprinter cover.
- (11) Turn on the scanner.
- (12) Reset the ink level counter as follows.

FUITSU Software Operation Panel

- You must reset the ink level counter whenever you replace the print cartridge
- The ink level counter can be reset from the operator panel. For details, refer to Section 8.4.2 "Confirming replacement time and resetting the consumable counter".
 - Click the [Start] menu → [All Programs] → [Scanner Utility for Microsoft Windows] → [Software Operation Panel].
 - → The [FUJITSU Software Operation Panel] window appears.
 - 2. Click [Device Setting] from left side list in the window.

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- ryeligent Multileed Functic	20	- Lingel	Deatti
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Pick Speed	Proper second		
Soft Pick Setting			
AutoCrop Boundary Auto color Detection	2	. 15	minutes
Alam setting	•		00-1
·			

- 3. Click the [Clear] button for [Ink Pre].
- 4. Click the [OK] button on the confirmation dialog box.
- \rightarrow The value of the [Ink Pre] counter is set to 100.
- 5. Click the [OK] button on the [FUJITSU Software Operation Panel] window.

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9.8.1.2 Operating Test

After installing the Print cartridge, check whether characters can be printed.

- (1) Press the power button on the scanner front.
 → The [Ready] screen is shown on the LCD.
- (2) Place a blank document on the hopper.

- Use A4 or Letter size paper. If the size is smaller than A4 or Letter, printing may not successfully complete.
- Confirm that the print cartridge is positioned within the document width.
- (3) Press the [Menu] button.
 → The [Main Menu] screen is shown on the LCD.
- (4) Select [Test Print] by pressing the [□] or [♀] button, and press the [Enter] button.
 The [No. of Sheets Scanned] screen is shown on the LCD.
- (5) Select [Test Print] by pressing the [I] or [♀] button, and press the [Enter] button.
 When [Multiple Sheets] is selected, printing is performed for all sheets set in the hopper.
 The [Print] screen is shown on the LCD.
- (6) Select the Imprinter to be used by pressing the [♣] or [♀] button, and press the [Enter] button. Select [Front Side] for the Front-Side Imprinter, or [Back-Side] for the Back-Side Imprinter.

Select one Imprinter. You cannot print on front and back-side at a time.

- \rightarrow The [Print Pattern] screen is shown on the LCD.
- (7) Select a print pattern by pressing the $[\blacksquare]$ or $[\heartsuit]$ button, and press the [Enter] button.

The following print patterns are available for vertical and horizontal orientation. **Test pattern 1 (Landscape):**



When multiple sheets are set in the hopper, printing is performed for all the sheets. The section "00000000" begins with 0, and increases in increments of 1.

 \rightarrow The [Test Print] screen is shown on the LCD.

- (8) Select a print pattern by pressing the [♣] or [♀] button, and press the [Enter] button.
 - → Paper is fed into the ADF, and the Imprinter prints out the Print Test Characters starting at 5mm (±4 mm) from the paper's edge.



D!!!E!!!F!!!G!!!H!!!I

Print test sample

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9.8.2 Cleaning

9.8.2.1 Cleaning the Print Cartridge

Poor quality prints can occur due to blocked ink emission holes in the nozzle. Leaving the imprinter unused for long periods can also cause emission holes to become blocked. When the emission holes are blocked, clean the nozzle plate of the print cartridge.

- (1) Press the power button on the scanner front.
- (2) Remove the print cartridge. (Refer to Section 9.8.1.1.)
- (3) Gently wipe dirt and dust off the nozzle plate.



NOTICE

Be careful not to touch the nozzle plate or the contact parts of the cartridge directly by hand. Touching them by hand may cause incorrect printing or contact failure.

(4) Make sure that all dirt and stains are removed, before installing the print cartridge.

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9.8.2.2 Cleaning the Imprinter

We recommend you to clean the scanner after 5,000 sheets scanning to avoid smudge on the scanned image. Note that the required cleaning cycle may vary depending upon document type to be scanned.

When you print documents on which ink does not easily dry, cleaning more frequently than once per 5,000 sheets may be required.

<Front-Side Imprinter>

- (1) Make sure that the scanner power cable is unplugged from the outlet.
- (2) Remove the print cartridge. (Refer to Section 9.8.1.1 <Front-Side Imprinter>.)
- (3) Open the hopper. (Refer to Section 8.1.2.)
- (4) Open the ADF. (Refer to Section 8.1.3.)
- (5) Gently wipe the Imprinter head by using a cloth moistened with isopropyl alcohol.



- (6) Close the ADF. (Refer to Section 8.1.3.)
- (7) Put the hopper back up. (Refer to Section 8.1.2.)
- (8) Reinstall the print cartridge. (Refer to Section 9.8.1.1 <Front-Side Imprinter>.)

<Back-Side Imprinter>

- (1) Make sure that the scanner power cable is unplugged from the outlet.
- (2) Remove the Print Cartridge. (Refer to Section 9.8.1.1 < Back-Side Imprinter>.)
- (3) Open the Top Cover. (Refer to Section 8.1.4.)
- (4) Gently wipe the Imprinter head by using a cloth moistened with isopropyl alcohol.



- (5) Close the Top Cover.
- (6) Reinstall the print cartridge. (Refer to Section 9.8.1.1 < Back-Side Imprinter>.)

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9.8.3 Consumables9.8.3.1 List of Consumables

The following is the list of the consumables for the Imprinter. The consumables need to be replaced by the customers. The amount of the remaining ink can be checked on the Operator Panel. The message to notify the consumable replacement appears when the amount of remaining ink reached the specified amount. (TBD)

No.	Description	Part Number	Replacement Cycle	Checking the Remaining Ink	Replacement Procedure
1	Print Cartridge	CA00050-0262	4,000,000 characters *	8.4.2	9.7.1.1
4. 771	1 0 1		1 1 0 1 1		

* The number of characters may decrease depending on the font selection.



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Appendix 1 Screws

The screws that are used in this device (scanner and imprinter) are as follows.

	Name on this manual	Description	Part number	Remarks	
	Screw A	<u>SCREW</u>	RU6SW2N3-08121		
				20 111	
	Name on this manual	Description	Part number	Remarks	
	Screw B	<u>SCREW</u>	RU6SW2N4-10121		
	Name on this	Description	Part number	Remarks	
	Screw C	SCREW	<u>RU6SNA2R5-05121</u>		

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Appendix 1

Name on this manual	Description	Part number	Remarks
Screw D	SMALL SCREW	U30L-0010-0030#M3X5	



Name on this manual	Description	Part number	Remarks	
Screw E	SMALL SCREW	RU6SW2N3-10121		
Name on this manual	Description	Part number	Remarks	
Tapping screw	PT SCREW	PA83952-2638		

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Appendix 1

Name on this manual Description		Part number	Remarks	
Screw F	SCREW	RU6SW2N2-12121		
Name on this manual	Description	Part number	Remarks	
Screw G	SMALL SCREW	RU6SW2N3-20121		
Name on this manual	Description	Part number	Remarks	
Screw H	SMALL SCREW	RU6SNA3-06121		
		Canadiana		
Name on this manual	Description	Part number	Remarks	
Screw I	SCREW	CA98001-8785		
		Consection of the section of the sec		

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Appendix 1

Name on this manual Description		Part number	Remarks	
Fulcrum screw	Fulcrum screw	U30L-0010-0043		
Name on this manual	Description	Part number	Remarks	
PUSH RIVET	PUSH RIVET	PA03951-1147		



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