DR-7080C

SERVICE MANUAL

FIRST EDITION







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Use of this manual should be strictly supervised to avoid disclosure of confidential information.

This Service Manual describes necessary basic information for field service and maintenance for maintaining the product quality and functions of the DR-7080C.

Contents

Chapter 1: General description

Features, specifications, name of parts, operation method

Chapter 2: Functions and operation Description of operation of machine system and electrical system by function

Chapter 3: Disassembly and reassembly Disassembly method, reassembly method

Chapter 4: Installation and maintenance Installation method, maintenance method

Chapter 5: Troubleshooting Service modes and troubleshooting

Appendix: General circuit diagrams, etc.

Information in this manual is subject to change. Notification of such changes will be given in Service Information Bulletins.

Thoroughly read the information contained in this Service Manual and the Service Information Bulletins to gain a correct and deeper understanding of the machine. This is one way of fostering response for ensuring prolonged quality and function, and for investigating the cause of trouble during troubleshooting.

Quality Assurance Center Canon Electronics Inc.

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CHAPTER 1

GENERAL DESCRIPTION

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I. FEATURES

1. Universal document scanner with ADF and flatbed (FB) for A3 size Support for black and white, grayscale, and color output

2. High speed scanning

Using ADF, A4 simple: Max. 70 pages/minute, A4 duplex: Max. 36 images/minute

3. New functions

Job function and MultiStream function by bundled software

4. Using the new product from Office Imaging Products Group of Canon Inc. Common ADF and Reader, and exclusive Controller



Figure 1-101

"Windows" is a trademark of Microsoft Corporation in the U.S. and other countries. Other company names and product names mentioned in this document are registered trademarks or trademarks of the respective companies.

II. SPECIFICATIONS

1. Appearance/Installation

No.	Item	Specifications	
1	Туре	Desktop type flatbed scanner with ADF	
2	Product models	1) for Japan:100 VAC, 50/60 Hz2) for American region:120 VAC, 60 Hz3) for European region:220 to 240 VAC, 50/60 Hz4) for others20 to 240 VAC, 50/60 Hz	
3	Rating power consumption/current	1) 100 V model: 151 W 2) 120 V model: 1.23 A 3) 220 to 240 V model: 0.74 A Note: "EnergyStar" available.	
4	Performance-guaranteed environment	15 to 27.5°C (59 to 81.5°F) 25 to 75% RH Note: No condensation allowed.	
5	Noise	 Sound power level In standby mode: In operating mode: 78 dB or less (100 to 300 dpi) 75 dB or less (400 to 600 dpi) Sound pressure level: Bystanders In standby mode: 40 dB or less In operating mode: 63 dB or less 	
6	Dimensions	575 (W) × 602 (D) × 300 (H) mm	
7	Weight	Approx. 34 kg	
8	Interface	1) SCSI-3 (Ultra SCSI compatible) 2) USB 2.0 (Hi-Speed compatible)	
9	Expected product life	One of the following two items, whichever comes first. 1) 5 years 2) ADF mode: Sheets fed: 4,000,000 sheets (A4 size) 3) FB mode: 200,000 scans There are parts needed to replace.	
10	Installation	By service technician	
11	Option	1) Stamp unit 2) Network scanning adapter: NSA-01	

Table 1-201

No.	ltem	Specifications				
1	Method of scan	1) FB: Mirr 2) ADF: She	1) FB: Mirror moving 2) ADF: Sheet feeding (mirror fixing)			
2	Type of sensor	3-lines CCD				
3	Picture element	Density of el	ement: 600	dpi, Effective	e elements:	7350
4	Light source	Xenon tube				
5	Dropout color	Available (R/	G/B)			
6	Color-emphasize mode	Available (R/	G/B)			
7	Reading side	ADF: Sim FB: Sim	plex (front), plex	Duplex		
8	Reading size (typical)	1) L series: L 2) A series: A 3) B series: B	.DR / LGL / I \3 / A4 / A4F 34 / B5 / B5I	_TR / LTR-R &/ A5 / A5R R		
9	Reading g size (atypical)	1) Available 2) Main-scar 3) Sub-scanr	 Available pixel unit setting Main-scanning direction: Min. 139.7 mm, Max. 298 mm Sub-scanning direction: Min.128 mm, Max. 432 mm 			
10	Output mode	 Binary (Black & White / Error diffusion Advanced text enhancement) Grayscale (8 bit) Color (24 bit) 				
11	Output resolution	1) 100 × 100 dpi 2) 150 × 150 dpi 3) 200 × 200 dpi 4) 240 × 240 dpi 5) 300 × 300 dpi 6) 400 × 400 dpi 7) 600 × 600 dpi) dpi) dpi		
12	Scanning speed (ADF)	A4 s	ize	Black & White	Gray	Color
		Simplex	200 dpi	70 ppm	70 ppm	70 ppm
		(pages/min.)	300 dpi	70 ppm	68 ppm	44 ppm
			400 dpi	50 ppm	40 ppm	28 ppm
			600 dpi	50 ppm	19 ppm	13 ppm
		Duplex	200 dpi	36 ipm	36 ipm	36 ipm
		(images/min.)	300 dpi	36 ipm	36 ipm	36 ipm
			400 dpi	32 ipm	32 ipm	28 ipm
			600 dpi	32 ipm	19 ipm	13 ipm
		Note: Grayscale and color mean JPEG in this case. It differs				
		depending on the setting, computer performance, or				
		otner	conditions.			

2. Document Reading

Table 1-202

3. Documents Feed (ADF)

No.	Item	Specifications	
1	Document size	 Width: 139.7 to 304.8 mm Length: 128 to 432 mm Note: At Long document mode, Max. 630 mm length, added color and 600 dpi mode, Max. 540 mm length. 	
2	Document weight (thickness)	 Simplex black & white document AB series: 42 to 128 g/m² (0.06 to 0.15 mm) L series: 50 to 128 g/m² (0.07 to 0.15 mm) Duplex black & white document 50 to 128 g/m² (0.07 to 0.15 mm) Color document 64 to 128 g/m² (0.08 to 0.15 mm) Black & white document at black & white and color mixed 50 to 128 g/m² (0.07 to 0.15 mm) Black & white document at black & other and color mixed 50 to 128 g/m² (0.07 to 0.15 mm) Note: At Long document mode, 60 to 90 g/m². 	
3	Document requirements	 Pressure-sensitive paper: Available (document weight: 50 to 128 g/m²) Carbon-backed document: None Perforated paper for binder: Only 2 / 3 / 4 holes can be fed. Folded paper File folded: Length 15 mm Max. / Height 10 mm Max. Staple folded: Length 20 mm Max. / Height 10 mm Max. Creased paper: Can be fed, but crease must be straightened. 	
4	Pickup storage	 1) 100 pages Max. (at document weight 80 g/m²) Available adding in progress. 2) 13mm Max. at height Note: At Long document mode, one sheet only. 	
5	Delivery storage	100 pages Max. (at document weight 80 g/m ²)	
6	Delivery face direction	Face down	
7	Feeding speed	1) 100/150/200/240/300 dpi: 468 mm/sec 2) 400/600 dpi: 234 mm/sec	

Table 1-203

4.	Image	Processing/Others	
----	-------	--------------------------	--

No.	ltem	Specifications	
1	Image processing	 Brightness adjustment: Contrast adjustment: Automatic brightness adjustment: Automatic brightness adjustment: ABC processing Shading correction: Standard white plate built in th Smoothing: Gamma correction: Edge emphasis: Image data compression: MultiStream function: Automatic size detection: Skew correction: 	255 levels 7 levels ent (AE): e scanner. Available Standard / Custom 5 steps JPEG module built-in Available Available Available
2	Other function	 Long document mode Pre-scan Count-only Patch code New file Job function Counter: stored in the memory Self-diagnosis function 	
3	Bundled software	ISIS/TWAIN driver, CapturePerfect 2.0 Job registration tool	

Table 1-204

The specifications above are subject to change for improvement of the product.

III. PRECAUTIONS

This section describes items that require particular care, for example, regarding human safety. These precautions must be observed. Explain to the user items that relate to user safety, and instruct the user to take appropriate actions.

1. Power OFF in Emergency

When such abnormalities as abnormal noise, smoke, heat and odor occur, turn the power off immediately and unplug the power cord.

As it may cause injury, be careful not to get clothing (ties, long hair, etc.) caught in the machine. If this happens, turn the power off immediately.

Also, do not insert your fingers in the feed section while feeding documents.

2. Electromagnetic Wave Interference Countermeasures

This machine complies with the electromagnetic wave interference standards (VCCI-A, FCC-A, etc.). However, the user might have to carry out countermeasures if the machine causes electromagnetic wave interference.

Do not change nor modify this machine. If this has been carried out, its use may be forcibly discontinued on site. If this machine's specifications shall be changed, or the machine shall be disassembled and reassembled, follow the instructions described in this manual or in Service Information Bulletins. The "CAUTION LABEL" is affixed on the rear of the machine.

ĺ	This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device	This Class A digital apparatus meets all requirements of the Canadian Interference- Causing Equipment Regulations.
l	may not cause harmful interference, and (2) this device must accept any interference received, inculuding interference that may cause undesired operation.	Cet appareil numérique de la classe A respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

CAUTION LABEL

3. User Manual

Read the user manual thoroughly before using this machine.

4. Disposal

Following local regulations when disposing of the product and parts.

5. Movement

The machine weighs approximately 34 kg. Hold it firmly from both sides with

two persons, and move the main body carefully. Do not try to lift it alone.

IV. NAME OF PARTS

1. Feeder



Figure 1-401

- 1 Feeder cover
- ② Opening lever
- ③ Document set indicator
- ④ Slide guide (Document guide)
- Large-size document detection sensor (LGL sensor)
- 6 Document feeder tray
- ⑦ Document delivery tray
- ⑧ Operation panel

2. Flatbed



Figure 1-402

- Pressure board (black)
- ① Flatbed (Platen glass)
- 1 Opening sensor
- Power switch
- 1 Air vents

3. Rear View





- 13 Air vents
- USB connector
- (15) DIP switches
- ⑤ SCSI connectors
- ⑦ Grounding terminal
- B Power cord connector
- Note: Take care to ensure that the vents never become blocked. Blocked vents can lead to heat build-up inside the scanner and create the risk of failure.

4. Operation Panel



Figure 1-404

- ① Menu key
- ② Set keys
- ③ Enter key
- ④ Display panel
- ⑤ Job keys
- 6 New File key
- ⑦ Start key
- ⑧ Stop key

V. EXPLANATION OF OPERATION

For details, refer to user manuals of the DR-7080C and the software to be used.

1. Basic Operation

The basic operation for operating the DR-7080C is as follows.

- 1) Turn the DR-7080C ON.
- 2) Turn the computer ON.
- 3) Start the software.
- 4) Set the document.
- 5) Execute operation.
- 6) End operation.
- 7) Quit the software.
- 8) Turn the computer OFF.
- 9) Turn the DR-7080C OFF.

2. Operation Screen

The basic operation screens are shown below for reference.

The bundled "CapturePerfect2.0" uses the "TWAIN" driver.

1) CapturePerfect2.0





2) Scanner Setting

Canon DR-7080C on STI - 0024 🛛 🗶				
User Preference :		•		
	Save	Delete		
Mode :	Black and White	•		
<u>P</u> age Size :	Letter - 8.5 x 11 in	•		
Dots per inch :	300 dpi	•		
<u>B</u> rightness :	÷	▶ ☆ 128		
<u>C</u> ontrast :	•	🕞 🕒 Auto		
<u>S</u> canning Side :	Auto	•		
Ratio of $blac\underline{k}$ pixels :	<u>۲</u>) 2.0 %		
Feeding Option :	Standard Feeding	•		
Delay :	4	▶ 0 sec		
🗖 Deske <u>w</u>	🔲 Presca <u>r</u>	1		
Scanning Op <u>t</u> ion :	Standard	T		
Area Mo	re Abo <u>u</u> t	. <u>D</u> efault		
Orientation 0	K Cance	I <u>H</u> elp		

Figure 1-502

3) Advanced Settings

A	dvanced Settings					x	
	Color drop-out	<u>F</u> ront :		None		•	
		<u>B</u> ack :		None		•	
	Edge emphasis :	Soft	•		▶ Sharp		
	Other Settings :	Iext Orientation Recognition Different Size Originals Apply first page size to next pages Border Removal Reverse Image Stamp					
		<u>G</u> amn	na	ок	Cancel	Help	

Figure 1-503

24

4) Job Registration

No.	Job title	Function	4
01		Ì	
02			_
03			
04			
05			
06			
07			
08			
09			
10			
	×		

Figure 1-504

5) MultiStream



Figure 1-505

6) Version Indication



Figure 1-506



Figure 1-507

3. Jam Cleaning

- Remove all document pages from the document feeder tray and the document delivery tray.
- Open the feeder cover.
 Operate the opening lever, and then slowly raise the feeder cover it stops.





3) Remove the jammed document.



Figure 1-509

4) Grasping the tab inside the scanner, open the feeder guide.



Figure 1-510

 Rotate the dial on your side of the scanner to remove any document jammed inside the feeder.





6) Close the feeder guide.



Figure 1-512

7) Close the feeder cover.



Figure 1-513

8) Open the feeder.



Figure 1-514

9) Remove the document jammed in the feeder.



Figure 1-515

10) Close the feeder.



Figure 1-516

VI. REGULAR INSPECTION BY USERS

Instruct the user that the following locations must be cleared about once a week. For the details, refer to the user manual.

1. Exterior

Wipe the covers with a cloth tightly wrung with water or neutral detergent soaked, and then wipe dry.

2. Glass, pressure board

Wipe the platen glass, ADF reading glass, and black pressure board with a cloth tightly wrung with water and then wipe dry.

3. Roller

Wipe the following rollers with a cloth tightly wrung with water and then wipe dry:

- 1) No. 1 registration roller
- 2) No. 2 registration roller
- 3) No. 1 registration roller follower
- 4) No. 2 registration roller follower
- 5) Reversal upper roller
- 6) Reversal lower roller
- 7) Platen roller

4. Power Cord

After the power code is plugged in to the outlet for a long period of time, dust will collect on the connected part and could cause a fire or electric shocks. To prevent this, clean it regularly.

CHAPTER 2

FUNCTIONS & OPERATION

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I. OUTLINE

1. System Configuration

Figure 2-101 shows the system configuration.

For the computer specifications and other operating environment details, refer to the user manual.



Figure 2-101

2. Overall Configuration

Figure 2-102 shows the overall configuration.





1) Feeder

The feeder picks up and delivers documents.

2) Reader

The reader scans image data with a CCD and controls the feeder.

3) Controller

The controller processes the image and performs the interface with the computer. However, image processing can also be performed from the computer. The controller is also provided with a

power supply block.

3. Motor Drive

The reader of this machine includes a scanner motor (M501) for moving the mirror unit, a pickup motor (M1) for transporting documents in the feeder, a feed motor (M2), a delivery reversal motor (M3), and a pressure motor (M4) which presses the reader roller follower 1 to the read roller.



Figure 2-103

4. Electric Circuit

Figure 2-104 shows the electrical circuit block diagram





II. FEEDER

1. Basic Construction

Outline of the feeder system
 Figure 2-201 shows the cross section of
 the feeder system.
 The platen roller is black. The pressure
 board for the platen glass is also black.
 This color has been selected to
 facilitate image processing such as
 automatic size detection, which is
 described later.



- ① Pickup roller
- ② Feeding roller
- ③ No. 1 registration roller follower
- ④ No. 1 registration roller
- (5) No. 2 registration roller follower
- 6 No. 2 registration roller
- ⑦ Read roller follower 1 (Pressure roller)
- ⑧ Read roller 1
- 9 Platen roller follower 1
- 1 Platen roller
- 1 Platen roller follower 2
- 1 Read roller 2
- ③ Read roller follower 2
- 1 Delivery reversal lower roller

- (5) Delivery reversal upper roller
- 16 Reversal upper roller
- Reversal lower roller
- 21 Document width volume
- 22 LGL sensor
- 23 A4R/LTRR sensor
- 24 Feeder cover sensor
- 25 Document set sensor
- 26 Post-separation sensor
- 27 Registration sensor
- 28 Read sensor
- 29 Pressure HP sensor
- 30 Delivery reversal sensor

 Outline of the electrical circuitry The feeder is controlled by the reader controller PCB in the reader, which serves as a CPU (IC1). The CPU interprets signals from sensors and the reader to generate signals used to drive DC loads (e.g., motor, solenoid) with the help of the CPU (IC9) of the ADF driver PCB.



Reader



3) Inputs to the ADF driver PCB



4) Outputs from the ADF driver PCB



2. Basic Sequence of Operation

1) Routes of drive

The feeder uses 4 motors and 1 clutch to control the movement of documents.

Name	Symbol	Description	
Pickup motor	M1	Picks up/feeds documents.	
Feed motor	M2	Feeds documents.	
Delivery reversal motor	M3	Delivers or reverses documents.	
Pressure motor	M4	Pressures/separates the pressure roller	
Pickup clutch	CL1	Cuts the drive from the pickup motor (M1) to the pickup roller and the feeding roller.	

Table 2-201

The following is a diagram of the feeder routes of drive:



2) Overview of operation modes

The feeder executes the following 4 types of operation mode, executing individual modes according to the instructions from the host machine for reading. The following table shows these operation modes, outlines of the modes, and corresponding reading modes:

No.	Operation mode	Outline of operation	Corresponding reading mode
1	Normal rotation pickup/ delivery • simplex mode	Picks up a document, and delivers it after it has been read	Simplex reading
0	Normal rotation pickup/ reversal delivery • low-speed duplex mode (small) • low-speed duplex mode (large) • high-speed duplex mode	Picks up a document, and reverses and delivers it after it has been read.	Duplex reading

Table 2-202

Document is identified as follows in terms of size:

- small-size: A5R, A5, A4, B5, LTR, STMT
- large-size: A4R, A3, B5R, B4, LTRR, LGL, LDR (11"×17")

 Normal rotation pickup/delivery operation (simplex mode)

The following shows the flow of documents:





Delivers the 1st document. Reads the 2nd document.

Figure 2-206

4) Normal rotation pickup/reversal delivery (duplex mode) The following shows the flow of

documents:

- a) Low-speed duplex mode
 - Small-size



Figure 2-207


Figure 2-208

• Large-size









Figure 2-210

 b) High-speed duplex mode (A4/LTR only) The high-speed duplex mode may be enabled only when the document size is A4/LTR.

The high-speed duplex mode may be enabled or disabled in service mode: FEEDER>OPTION>SL-DBL. The default is set to ON (high-speed mode).

If the user tends to use documents not suited to high-speed duplex mode, be sure to select OFF (disabled).



Figure 2-211







Note: The high-speed duplex mode is a feed operation mode whereby the scan speed (number of scanned images per minute) for the standard A4/LTR size using a resolution of 400/600 dpi is faster than that for the regular small size. The following conditions are required to execute this mode.

- Pre-read scan: ON
- Long document mode: OFF
- Stamp: OFF
- Different size documents: OFF
- Specification of number

of scan sheets:

OFF

3. Detecting the Documents

1) Overview

The feeder provides presence/absence of document detection and document size detection functions. Their details and the sensors they use are listed in Table 2-203.

The document size detection during different size documents, automatic size defection, and long document mode is special. Refer to the relevant sections.

Item	Description	Sensor used (notation)
Presence/absence of document detection	Identifies the presence/absence of a document in the document pickup tray	Document set sensor (PI5)
Document size detection	on	
Feed direction	Identifies whether the length of documents placed in the document pickup tray is longer than LGL.	LGL sensor (PI4)
	Identifies the state of the post-separation sensor (ON/OFF) after the read sensor goes ON to identify the document as being small or large.	Post-separation sensor (PI7), read sensor (PI8)
	Detects the time from post-separation sensor OFF until read sensor ON (A4R/LTR identification).	
Width direction	Detects the width of the document placed in the document pickup tray	Document width volume (VR1)
	Identification between A4R and LTRR	A4R/LTRR sensor (PI3)

Table 2-203

2) Detecting the presence/absence of a document

The machine uses the document set sensor (PI5) to detect the presence/ absence of a document in the document pickup tray.

When a document is placed on the tray, the detection lever operates in conjunction with the light-blocking plate, during which the light-blocking plate blocks the light of the photo interrupter. As a result, the document set sensor (PI5) generates the document detection signal (EMP_S), which will cause the ADF driver PCB to turn on the document set indicator.



Figure 2-213

3) Document size detection

The document size is detected using the combination of size detection (width, length) in the document pickup tray and size detection (length) during feeding. As a result, the size of the set document is identified as large size, small size, or A4/LTR. The feed operation mode best suited to the size of the document is executed. Table 2-204 lists the various document sizes and the detection results.

	Dimensio	ons (mm)	LGL	LGL Post-separation	Guide	
Document	Width	Feed	sensor	sensor	position No.	Judgment
LDR	279	432	ON	ON	2	Large
A3	297	420	ON	ON	1	Large
B4 (JIS)	257	364	ON	ON	3	Large
LGL	216	356	ON	ON	4	Large
A4R	210	297	OFF	ON	5	Large
LTRR	216	279	OFF	ON	4	Large
B5R	182	257	OFF	ON	6	Large
LTR	279	216	OFF	OFF	2	Small*
A5R	148	210	OFF	OFF	7	Small
A4	297	210	OFF	OFF	1	Small*
B5 (JIS)	257	182	OFF	OFF	3	Small
A5	210	148	OFF	OFF	5	Small
STMT	216	140	OFF	OFF	4	Small

Table	2-204
-------	-------

Note: "Post-separation sensor" indicates the status of the post-separation sensor when the read sensor is ON. "Guide position No." indicates the document guide position. "1" indicates that the deployed position of the guides. a) Feed direction (length)

The size of the document in the feed direction is judged through LGL sensor ON/OFF detection, and post-separation sensor ON/OFF detection when the read sensor is ON, or the time from post-separation sensor OFF until read sensor ON.

However, if automatic size detection is selected, the length data calculated fro

read sensor ON/OFF is used.

For details, refer to the relevant sections. If the post-separation sensor is ON when the document is fed and the read sensor (PI8) detects the document, a large size is judged. If the post-separation sensor is OFF at this time, a small size is judged.

Refer to Figure 2-214.



Figure 2-214

To execute the high-speed duplex mode for A4 or LTR, when the document guide is set to A4 or LTR, the machine measures the time from post-separation sensor OFF until read sensor ON, and judges if the document size is A4 or LTR. Refer to Table 2-205.

Document	Sensor	Timing	Judgment
A3	Post-separation Read	Document detection	Large
A4	Post-separation Read	Measurement	Small* A4
A5	Post-separation Read	Measurement	Small

Table 2-205

When a document of LTR or larger size is placed in the document pickup tray, the LGL sensor detection lever actuates the light-blocking plate, and the light-blocking plate blocks off the light to the photo interrupter. Thus the fact that the document is a large size can be detected before feeding starts. Refer to Figure 2-215.





b) Width direction

The width direction of a document is detected using the document width detecting volume (VR1) found inside the document pickup tray. The volume operates in conjunction with the document guides, its resistance changing (analog) as the guides are moved. The ADF driver PCB reads these changes in resistance as the document size signal (WIDTH), and recognizes them as specific widths.

To make sure that the document width of A4R and LTRR can be correctly detected, a special A4R/LTRR sensor (PI3) is used inside the document pickup tray; the sensor goes '1' (A4R signal) when the width of the document is 197 mm or more and less than 214 mm. The A4R document width is 210 mm. The track of the document guides is given a groove so that the guides may stop at specific default sizes. Some sizes, however, are extremely close to each other, possibly causing the document guides to stop at the wrong point. To make sure that the document slide stops at the correct stops, the document guides are provided with a positioning parts ①, which restricts the stops as follows:

The front marking is set to A4 and there are two grooves at the factory setting.

Marking on document	Document guide stop position		
positioning parts (front)	1 groove	2 grooves	
A4R	A4R	A4R LTRR	
INCH	LTRR	A4R LTRR	

Table 2-204





Figure 2-216

Figure 2-217

c) Long document mode, automatic size detection

To read document images that exceed 432 mm in length, it is necessary to set both the long document mode and automatic size detection to ON. In the case of automatic size detection, the document size in the feed direction is detected from read sensor ON until read sensor OFF, and the width direction is detected during image processing.

The platen roller is black to enable image processing in width direction so that the background of documents may be read as black. For details, refer to "IV. CONTROLLER".

When the long document mode or automatic size detection is ON, the feed operation does not switch to the high-speed duplex mode even when the document size is A4 or LTR. d) Different size documents mode

When the different size documents mode is set to ON, A4 or LTR detection is not performed during feed direction size detection, and the feed operation mode does not switch to the high-speed duplex mode.

When this mode is OFF and the current conditions allow switching to the high-speed duplex mode, an error is judged and feeding is stopped when the first document of the batch is either A4 or LTR, but the 2nd and subsequent documents that are fed have a different size in the feed direction.

If the second or subsequent document size is longer than the first document, a different size document error is displayed, and if it is shorter, document jam is displayed.

4. Picking Up and Feeding

- 1) Basic operation
 - a) Picking up

When the pickup motor (M1) rotates in reverse and the pickup clutch (CL1) goes ON, the pickup roller unit moves



down to start pickup operation. The separation plate and the separation pad are used to prevent multiple feeding of documents. After the 2nd document, the pickup unit remains in down position.





b) Aching

When the document has been moved for a specific number of pulses after the registration sensor has gone ON, the document is caused to arch at the No. 1 registration roller so that it becomes free of any skew.



Figure 2-219

c) Sheet-to-sheet distance

Set the pickup clutch to OFF, drive the pickup motor in normal rotation, and drive the feed motor (M2) to feed the document.

While the document is between the No. 1 registration roller and the No. 2 registration roller, its movement is accelerated so that there will be a sheet-to-sheet distance at the time it reaches the No. 2 registration roller for reading. The normal rotation maximum speed of the pickup motor is 750 mm/sec; it decelerates to reading speed at a point 23 mm in front of the No. 2 registration roller to move the document to the No. 2 registration roller. (Refer to Figure 2-220)

d) Feeding

The document from the No.2 registration roller is fed by the feed motor (M2). The pressure motor (M4) is driven and pressed before the leading edge of the document reaches the reading roller 1. When the document reaches the point of deceleration before reading, the machine checks whether the READY signal is on, in which case it will feed the document ahead to the point of reading; if the signal is off, the machine keeps the document in wait for reading.

e) Start of reading

The machine identifies the document position with reference to the pulses generated by the feed motor after the read sensor goes ON. When the leading edge of the document reaches the point of reading, the machine sends the image leading signal to the reader so that the reader can start reading operation.

The reading is executed by fixing the scanner of the reader in place and moving the documents on the reading glass.



Figure 2-220

2) Pickup unit and the stopper

The pickup unit consists of a pickup roller and a feeding roller. When the document pickup signal arrives, the pickup clutch (CL1) goes ON, the pickup motor (M1) starts to rotate in reverse to move down the pickup unit, and the pickup roller and the feeding roller start to rotate to pick up a document. The separation pad and the separation plate are used to make sure that no more than one document is picked up and fed at time of pickup.



Figure 2-222

 Sequence of operation The figure shows sequence of pickup operation (small-size).



Figure 2-223

- Controlling the pickup motor (M1) The following is a diagram of the circuit used to control the pickup motor (M1). The pickup motor is a 4-phase stepping motor, and the circuit serves the following functions:
- Controlling the current values of the motor
- Controlling the rotation direction of the motor
- Controlling the rotation speed of the motor





IC9 on the ADF driver PCB receives data (command) of the rotation direction and current values and drive pulses from the reader; in response, it generates drive pulses to drive the pickup motor (M1). The pickup motor (M1) is a stepping motor, and its direction and speed of rotation are varied by changing the order and the frequency of drive pulses (A, A*, B, B*).

- 5) Controlling the feed motor (M2) The following is a diagram of the circuit used to control the feed motor (M2). The feed motor (M2) is a 4-phase stepping motor, and the circuit has the following functions:
- Controlling the ON/OFF of the motor
- Controlling the rotation direction of the motor
- Controlling the rotation speed of the motor





- Controlling the pressure motor (M4) The following is a diagram of the circuit used to control the pressure motor, and the circuit has the following function:
- Controlling the ON/OFF of the motor
- Controlling the rotation speed of the motor



Figure 2-226

5. Reading/reversing

The document reversing is performed in case of the duplex reading mode.

- 1) Basic sequence of operation
 - a) Reading

The platen roller rotates using the drive from the feed motor (M2) for reading the document. The machine keeps count of pulses from the feed motor to monitor the movement of the document; and, before the trailing edge of the document leaves the read roller 1, the machine drives the pressure motor (M4) for a specific number of pulses to move the pressure roller away (i.e., to prevent the impact otherwise occurring when the trailing edge of the document leaves the roller).

Moreover, the machine turns ON the delivery reversal sensor (PI9) to drive the delivery reversal motor (M3) and deliver the document. It also turns ON the pressure solenoid (SL2) to press the delivery reversal lower roller before the trailing edge of the document leaves the read roller 2. The machine accelerates the delivery reversal motor when the trailing edge of the document leaves the read roller 2.





b) Reversing/feeding 1

The delivery reversal motor (M3) stops when the trailing edge of the document moves past the delivery reversal sensor (PI9); immediately thereafter, the delivery reversal motor starts to rotate in reverse so that the document will arch against the No. 2 registration roller. At the same time, the pressure solenoid goes OFF to move the delivery reversal lower roller away.





c) Reversing/feeding 2

The machine rotates the feed motor (M2) in normal direction and the delivery reversal motor (M3) in reverse to feed documents at the same time. The machine stops the delivery reversal

motor when the documents have fed a specific distance. The machine then drives the pressure motor for a specific number of pulses to press the pressure roller in place.





2) Sequence of operation The figure shows sequence of operation (small-size, reversal).

			,
	Reading	Reversing	(
Feed motor (M2)			
Pressure motor (M4)			
Read sensor			
(PI8)			(
Delivery reversal		Reversal wait	,
Selisol (F19)			
Delivery reversal		Arching	
motor (M3)			
Pressure solenoid	Normal direction	Reverse	
(3L2)			(
Image leading signal			
			(

Figure 2-230

 Controlling the delivery reversal motor (M3)

The following is a diagram of the circuit used to control the delivery reversal motor (M3). The delivery reversal motor is a 4-phase stepping motor, and the circuit has the following functions:

- Controlling the ON/OFF of the motor
- Controlling the rotation direction of the motor
- Controlling the rotation speed of the motor



Figure 2-231

6. Moving and Delivering

1) Basic sequence of operation

The machine turns ON the pressure solenoid (SL2) before the trailing edge of the document leaves the read roller to

press the delivery reversal lower roller in place. It then accelerates the delivery reversal motor (M3) when the trailing edge of the document leaves the read roller for delivery.



Figure 2-232

 Sequence of operation The figure shows sequence of operation (small-size, delivery).

	Reading	Delivering
Feed motor		
(M2)		
Pressure motor		
(M4)		
Read sensor		
(PI8)		
Delivery reversal		
sensor (PI9)		
Delivery reversal		
motor (M3)		
Pressure solenoid		
(SL2)		
Image leading signal		

Figure 2-233

III. READER

1. Basic Construction

 Major components The reader consists of the following major components:

ltem	Notation	Description
Scanning lamp	LA1	Xenon lamp: 77,500 lx
Scanner motor	M501	2-phase pulse motor: pulse control
Cooling fan	FM501	Cools the reader
Scanner HP sensor	PS501	Detects the home position of the scanner.
ADF opening sensor 1	PS502	Detects the sate (open/closed) of the ADF using the ADF opening sensor (5 deg).
ADF opening sensor 2	PS503	Detects the size with the ADF at 25 deg (not used)
Mirror		No. 1, No. 2, No. 3 mirror

Table 2-301



Figure 2-301



Figure 2-302



Figure 2-303

 Construction of the control system
The following shows the construction of the control system of the reader:



The following shows the functional construction of the reader controller PCB:



Figure 2-305

Jack No.	Description
J201	Used for the power from the controller
J202	Used for communications with the ADF
J203	Used for communications with the controller Used for connection with the scanner motor
J204	Used for connection with the CCD unit
J205	Used for connection with the CCD unit
J206	Used for connection with the inverter PCB

Table 2-302

IC No.	Description	
IC1	CPU (holds boot program)	
IC2	ASCI (built-in RAM)	
IC3	Flash ROM (stores firmware)	
IC4	EEPROM (backs up service mode settings)	

Table 2-303

2. Basic Sequence of Operation

1) Basic sequence of operation at power-on







*1: Turns on/off the power for the CCD and its peripheral circuits to prevent overheating and to enable power saving.

Figure 2-307

2) Basic sequence of scanningFB mode; 1 document







Figure 2-309



*1: Executes only if 1 min or more has passed with power supplied from the previous operation.

Figure 2-311

6. Stream reading scan7. Shift to standby position

Shading correction

9. Shift shading

8. Shift to shift shading start position

10. Fixed shading dust detection Standard white plate dust detection

3. Drive of the Scanner

1) Overview

The following shows the arrangement of the components associated with the drive of the scanner:



Figure 2-312

No.	Signal	Function
1	Scanner motor drive signal	Controls the activation/deactivation of the motor and the direction and speed of the motor.
2	Scanner HP sensor detection signal	Used in reference to the detection of the No. 1 mirror base at its home position.
3	ADF opening sensor 1 detection signal	Used in reference to the detection of the state (open/closed) of the ADF. (5 deg)
4	ADF opening sensor 2 detection signal	Used in reference to the detection of the state (open/closed) of the ADF. (25 deg)

Table 2-304

 Controlling the scanner motor The following shows the construction of the scanner motor control. The motor driver on the interface PCB controls the rotation (activation/deactivation) of the scanner motor and its direction and speed of rotation according to the signals from the CPU.





The forward operation of the No. 1 mirror base unit during scanning in the FB mode is shown below.

When the resolution is 300 dpi or lower, the scan speed is 468 mm/sec, and in the case of 400/600 dpi, it is 234 mm/sec.

After an image scan, the No. 1 mirror base is moved in reverse to shading position at 234 mm/sec regardless of the selected resolution.



① Acceleration Area : Accelerates the scanner to the speed corresponding to the resolution.

- (2) Preparatory Area : Serves as a margin for speed stabilization.
- ③ Image Read Area: Reads the image at a specific speed.

(4) Deceleration Area : Decelerates and stops as soon as reaching the original trailing edge.

Figure 2-314

4. Scanning Lamp

1) Overview

The controlled items and control system configuration related to the scanning lamp are indicated as follows:

- a) Turning On and Off the Scanning Lamp The scanning lamp is turned on or off by the drive signal (XE-ON) generated by the CPU of the reader controller PCB. When the signal is generated, the inverter PCB generates high-frequency high voltage using the activation control circuit from the drive voltage (+24V) supplied by the reader controller PCB, thus turning on the scanning lamp.
- b) Detection Error Activation

The machine detects a fault in the intensity of the lamp as an activation error caused by a fault in the intensity of the lamp at time of initial activation (shading correction).

Error code: E2250001

- The reader controller PCB is faulty.
- The inverter PCB is faulty.
- The scanning lamp is faulty.
- The cable has poor contact.



Figure 2-315

2) Scanning Lamp

The machine's scanning lamp is a xenon lamp, which uses xenon gas sealed inside. On the outside of the glass tube, 2 electrodes are arranged in parallel with the tube; the inside of the tube, on the other hand, is coated with fluorescent material. When a high-frequency high voltage is applied to the electrodes, the gas inside the tube starts to discharge, causing the fluorescent material to emit light.



Figure 2-316

5. Document Size Detection

The scan area is selected by software. When either "Standard Size" or "Specify Area" is selected, regardless of the size and position of the set document, the software's selections are used.

When "Automatic Detection" is selected, the size of the document is detected by processing the scanned image data. The pressure board and platen roller are black. Since the background of documents can be read as black, automatic detection by image processing is possible.

For details, refer to "IV. CONTROLLER".



- In case the background is black
- In case the background is white



Figure 2-317

6. Standard white plate Dust Detection

1) Overview

The machine uses a fan to cool the inside of the reader unit to prevent overheating otherwise caused by the xenon lamp in the ADF mode. The fact, however, can cause stray dust inside the reader unit to collect on the standard white plate that is attached on the rear side of the platen glass, showing up as lines in output images.

2) Timing of control

The standard white plate dust detection and correction are performed when the power is ON and also at the beginning and end of scanning.



Figure 2-318

- 3) Particulars of control
- Standard white plate Dust Detection

The machine compares the shading coefficient obtained from shift shading and the shading coefficient obtained from fixed shading to identify the presence/absence of dust and, if any, coordinates and width of the area.

• Standard white plate Dust Correction

If the machine detects dust as a result of standard white plate dust detection, it corrects the shading coefficient of the area using the shading coefficient of both sides so as to decrease the effects of the presence of dust. It executes shading correction using the coefficient it obtains after correction.



Figure 2-319

7. Reading

1) Outline

Reading by this machine is done using the CCD in the CCD unit.

The image data read with the CCD is subjected to a first stage of image data

processing using the CCD/AP PCB on which the CCD is mounted, and is then output to the reader controller circuit. After that, it is output to the controller.



Figure 2-320

2) CCD

The machine's CCD is a linear image sensor consisting of 3 lines (R, G, B, 1 line each), each line composed of 7350 photo cells.

The signal that has been put through photo-conversion in the light-receiving segment is divided into 2 analog signals of 2 channels for output: even-numbered pixels (EVEN) and odd-numbered pixels (ODD).





3) Image data processing

Following the execution of offset adjustment, gain adjustment, and A/D conversion by the CCD/AP PCB, shading correction is performed by the reader controller PCB. Figure 2-322 shows the block diagram of the image processing performed by the CCD/AP PCB, and Figure 2-323 shows the block diagram of the image processing performed by the reader controller PCB.



Figure 2-322



Figure 2-323
4) Shading correction

The CCD output is not constant even when the document density is the same, due to variations in the sensitivity of the CCD's pixels and the light intensity of the scanning lamp. The processing performed to compensate these aspects is called shading correction. Shading correction is performed for digital signals following A/D conversion. This processing is performed every time scanning is performed.

The target values used for shading correction are determined by measuring the density of the normal white paper and the standard white plate in the machine in the service mode. This is called "shading adjustment".

The machine directs the light from the scanning lamp against the standard white plate each time it scans a document, and converts the reflected light into a digital signal by the analog image processing block on the CCD/AP PCB. The result (i.e., a digital signal representing the intensity of the reflected light) is sent to the shading correction circuit of the reader controller PCB as a shading coefficient of the individual pixels of the CCD. The shading correction circuit in turn compares the coefficient against the target value it holds, and offers the difference as the shading correction value.

The machine uses the shading correction value to correct the variation that may exist among the individual pixels of the CCD, thereby keeping the image density to a specific level at all times.



Figure 2-324

IV. CONTROLLER

1. Outline

The main functions of the controller are image processing and interfacing with the computer.

However, image processing can also be performed with the first-stage reader, or the computer following output. Moreover, a power supply block is provided in the controller. This power supply block converts the AC power supply input from external and supplies the appropriate power to the reader and feeder.

Figure 2-401 shows the block diagram of the controller.

The feeder and reader used in the machine are the same as those employed in copiers, but the controller is a dedicated controller specifically designed for this machine.



Figure 2-401

2. DC Controller PCB

Figure 2-402 shows the block diagram of the DC controller PCB, and Table 2-401 lists the functions of the ICs in the block diagram.



Figure 2-402

IC No.	Name	Function
IC101	QQ-Chip	Image processing, JPEG compression, DMA transfer
IC102	JPEG memory (SDRAM)	JPEG compression memory
IC103	CPU	Controller control
IC104	Image memory (SDRAM)	Image storage memory
IC105	Image memory (SDRAM)	Image storage memory
IC106	Xilinx	DMA control, etc.
IC108	Channel link interface	Image signal input
IC109	LVDS interface	Command/status
IC110	Image memory (SDRAM)	Image storage memory
IC111	Image memory (SDRAM)	Image storage memory
IC112	Image memory (SDRAM)	Image storage memory
IC113	Image memory (SDRAM)	Image storage memory
IC114	Image memory (SDRAM)	Image storage memory
IC115	Image memory (SDRAM)	Image storage memory
IC116	S-RAM	For CPU work
IC117	S-RAM	For CPU work
IC118	LVDS interface	Command/status
IC119	FiFo	Image processing FiFo memory
IC122	EEP-ROM	Log record parameters
IC123	Image memory (SDRAM)	Image storage memory
IC124	Image memory (SDRAM)	Image storage memory
IC125	Image memory (SDRAM)	Image storage memory
IC126	Image memory (SDRAM)	Image storage memory
IC131	USB	USB interface
IC132	SCSI	SCSI interface
IC134	Flash	Firmware
IC145	DC-DC converter	+3.3VDC generation
IC146	LVDS interface	Command/status
IC148	A-Chip	Image processing
IC150	DC-DC converter	+13.2VDC generation
IC161	DC-DC converter	+5VDC generation
IC201	DC-DC converter	+1.8VDC generation

Table 2-401

3. Image Processing

1) Outline

Figure 2-403 shows the block diagram of the image processing performed by the DC controller PCB.

Reader	CCD	Computer	
		color data	SCSI/USB
C controller	PCB		
A-Chip		Pre-processing (color correction, etc.)]
	♦		-
	Ť	Equalization processing (1st stage)]
	Processing	Brightness (1st stage)	
	block 1	Resolution conversion (1st stage)	
		Gray conversion (1st stage) Note 1	storage
	Processing block 2	Image rotation	SDRAM
		Equalization processing (2nd stage) Note 2	1
		Brightness adjustment (2nd stage)	
QQ-Chip		Automatic brightness adjustment Note 3	
		Resolution conversion (2nd stage) Note 2	
		Gamma correction (2nd stage)	1
		Gray conversion (2nd stage) Note 1	1
		Edge emphasis	
	Processing block 3	Error diffusion	
		Simple binarization	
	Processing block 4	JPEG processing Note 4	

- **Note 1:** If the output mode is other than color, the color data is converted to the grayscale data.
- **Note 2:** This processing is performed when resolution conversion is requested by the MultiStream function.
- **Note 3:** This processing is performed when automatic brightness is selected for the simple binarization (black & white) output mode.
- **Note 4:** This processing is performed when a JPEG format is requested at the color or grayscale mode.

The main image processing of the controller is performed by the IC101 (QQ-chip) on the DC controller PCB.

As described in the section covering the reader, the document is read by the CCD in the reader, and after the basic processing has been performed, the data is input to the DC controller PCB as main-scan 600 dpi color data (RGB, 8 bits each).

The image data is first input to the A-chip, and after undergoing basic adjustments such as color correction, it is input to the QQ-chip.

The QQ-chip supports the MultiStream function. MultiStream is a function for outputting data of two different modes at a single scan. Use of the MultiStream function requires application software that supports this function.

CapturePerfect 2.0, which is bundled in this machine, supports this function.

Therefore, two image processing blocks that can perform brightness adjustment and resolution conversion in the QQ-chip are provided to achieve higher processing speed.

Processing block 1, which is the first stage, performs processing using conditions involving a small data amount within the range covering the requested output conditions. For example, if the requested resolutions are 100 dpi and 300 dpi, the resolution is converted from 600 dpi to 300 dip.

Averaging, which is the pre-processing done before resolution conversion, is also called "smoothing". It helps minimize the moire effect during conversion to a low resolution. Averaging can be performed for all output modes (binary, grayscale, color).

The image data processed in processing block 1 is stored in image storage SDRAM.

Processing block 2 performs image processing according to the various requested output conditions based on the data stored in image processing SDRAM. The data is then output to processing block 3.

Following edge emphasis, processing block 3 performs error diffusion or simple binarization according to the requested output mode. The data whose image processing has been completed is output to the computer via the SCSI or USB interface.

However, if the file format request is JPEG, the data is sent to processing block 4 following edge emphasis. Once JPEG processing has been performed in processing block 4, the data is sent to the computer via the SCSI or USB interface. When JPEG processing is performed in the machine, the data amount is reduced, so the time required for transfer to the computer is shorter, and thus a larger number of sheets can be scanned in a given time, compared to when JPEG processing is performed in the computer. Part of the image processing is also performed in the computer. In some also cases. image processing is performed in the controller in order to make the data suitable for image processing in the computer. For details, refer to the other relevant sections.

2) MultiStream

As described previously, MultiStream is a function that outputs data in two different modes at a single scan.

Figure 2-404 shows a screen where 600 dpi resolution for grayscale and 100 dpi for black & white have been set for CapturePerfect 2.0, and the resulting outputs.

	Primary		Secondary	
Front		Front	☑ Use(V)	
Image Type :	256-level Gray 💌	Im <u>a</u> ge Type :	Black and White 💌	
<u>R</u> esolution :	600 💌	Re <u>s</u> olution :	100 💌	
<u>D</u> rop Out Color :	None	Dr <u>o</u> p Out Color :	None	
Back		Back	□ Use(X)	
Image Type :	24-Bit Color	Imag <u>e</u> Type :	24-Bit Color 💌	
Resolution :	300 💌	Resolutio <u>n</u> :	100 🔽	
Drog Out Color :	None	Drop O <u>u</u> t Color :	None	
Front/Back		Front/Back		
<u>F</u> ile Type :	PDF File (*.pdf)	File Type :	PDF File (*.pdf)	
<u>M</u> ulti Page :	OFF	Mul <u>t</u> i Page :	OFF 💌	
urePerfect 2.0 <u>/i</u> ew <u>P</u> age Options <u>H</u>			- :ica: 7	
uments and Settings¥6399		C¥Documents and Settings¥	63999¥デスクトップ¥Qp test¥erSecoOO	
	6		<i>c v</i>	
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ultiStream function can output different of	jata from a single scan. 0 1 2 3 4 5 6 7 8 9 a single scan. 0 1 2 3 4 5 6 7 8 9	MultiStream function can output different data from a single scan. 0 1 2 3 4 5 6 7 8 0 NultiStream function can calput different data from a single scan. 0 1 2 3 4 5 6 7 9 9		
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Figure 2-404

 Resolution conversion/ averaging Resolution conversion for the main-scan direction in the machine is done through pixel thinning, and resolution conversion in the sub-scan direction is done through pixel thinning and changing the feeding speed. However, pixel thinning results in a moire effect that lowers image quality. Equalization processing is done to prevent this effect. The resolution in the main-scan direction for image data input to the controller from the reader is always 600 dpi. The sub-scan direction resolution varies according to the feed speed. It is 600 dpi (low-speed feed) and 300 dpi (high-speed feed).

The cases for 400 dpi resolution output only and both 300 dpi and 200 dpi resolution output using the MultiStream function are described below.

	_
Averaging	
(1st stage)	
Brightness adjustment	$ \rangle$
(1st stage)	\
Resolution conversion	
(1st stage)	
Grayscale conversion	
(1st stage)	$ \rangle$
Image rotation	
Averaging	
(2nd stage)	
Brightness adjustment	
(2nd stage)	
Automatic brightness	
adjustment	
Resolution conversion	
(2nd stage)	
Gamma correction	
(2nd stage)	
Grayscale conversion	
(2nd stage)	

a) 400 dpi only.

• Input data [600 × 600 dpi]

A1	B1	C1	D1	E1	F1
A2	B2	C2	D2	E2	F2
A3	B3	C3	D3	E3	F3

• After averaging [600 × 600 dpi]

<u>A1+B1</u>	<u>B1+C1</u>	<u>C1+D1</u>	<u>D1+E1</u>	<u>E1+F1</u>	<u>F1+G1</u>
2	2	2	2	2	2
<u>A2+B2</u>	<u>B2+C2</u>	<u>C2+D2</u>	<u>D2+E2</u>	<u>E2+F2</u>	<u>F2+G2</u>
2	2	2	2	2	2
<u>A3+B3</u>	<u>B3+C3</u>	<u>C3+D3</u>	<u>D3+E3</u>	<u>E3+F3</u>	<u>F3+G3</u>
2	2	2	2	2	2

After resolution conversion [400 × 400 dpi]

<u>A1+B1</u>	<u>B1+C1</u>	<u>D1+E1</u>	<u>E1+F1</u>
2	2	2	2
<u>A2+B2</u>	<u>B2+C2</u>	<u>D2+E2</u>	<u>E2+F2</u>
2	2	2	2
<u>A4+B4</u>	<u>B4+C4</u>	<u>D4+E4</u>	<u>E4+F4</u>
2	2	2	2

b) 300 dpi and 200 dpi The resolution during controller input is $[600 \times 300 \text{ dpi}]$.

Since the data resolution is converted to $[300 \times 300 \text{ dpi}]$ during image processing in the 1st stage, averaging and resolution conversion are not performed during image processing of 300 dpi data during the 2nd stage.

300 dpi • Input data [300 × 300 dpi]									
	\neg	A1	B1	1	C1	D1	E	1	F1
Image rotation		A2	B2	2	C2	D2	E	2	F2
Averaging (2nd stage)					_				
Brightness adjustment	/	A3	B3	3	C3	D3	E	3	F3
Automatic brightness adjustment	/	• After av	veragi	ing [300 × 300) dpi]			
Resolution conversion		A1+B1	B1+(C1	C1+D1	D1+F1	F1+	F1	F1+G1
Gamma correction	- 1	2	2	<u>.</u>	2	2	2	<u></u>	2
(2nd stage)		A2+B2	B2+(.2	C2+D2	D2+F2	F2+	F2	F2+G2
(2nd stage)		2	2	<u> </u>	2	2	2		2
	/	<u>A3+B3</u>	<u>B3+0</u>	<u>C3</u>	<u>C3+D3</u>	<u>D3+E3</u>	<u>E3</u> +	•F3	<u>F3+G3</u>
	/	2	2		2	2	2		2
200 dpi		After res	solutio	on co	onversion	[200 × 20)0 dpi	i]	
Image rotation	,	Δ1+R	1	B	1+C1	D1+E	1	F	1+⊑1
Averaging (2nd stage)		2	<u> </u>	<u>D</u>	2	2	<u>-</u>	<u> </u>	2
(2nd stage)				_				_	
Automatic brightness		<u>A2+B</u>	2	<u>B</u>	2+C2	<u>D2+E</u> 2	2	E	<u>2+F2</u>
Resolution conversion		2			2	2			2
(2nd stage) Gamma correction									
(2nd stage)		<u>A4+B</u>	<u>4</u>	<u>B</u>	<u>4+C4</u>	<u>D4+E</u>	<u>4</u>	E	<u>4+F4</u>
Gray conversion (2nd stage)		2			2	2			2

4) Data conversion

To improve the reproducibility of documents and modify the acquired image as required by the user, it is possible to convert the document image data using conversion tables. This machine provides various conversion tables adjusted for image mode and setting value.

However, there are several adjustment items not available for image mode and other conditions. For details, refer to the driver software "Help" function.

The conversion tables below are for fundamental items and may be different from actual items.

a) Brightness adjustment

This adjusts the overall brightness of the scanned image. The image brightness increases as the setting value becomes larger, and decreases as the value becomes smaller.

For automatic brightness adjustment in Black & White mode, refer to the "Binarizing" section.



Figure 2-407

b) Contrast adjustment

This adjusts the contrast of the scanned image. The image contrast increases as the setting value becomes larger, and decreases as the value becomes smaller.

In this machine, this processing is performed at the gamma correction location in the image processing block diagram.



Figure 2-408

c) Gamma correction

This is used when data conversion other than brightness and contrast adjustments is required.

It is possible for the user to use a custom conversion table for converting the gamma curve to the document image data. In this case, the brightness and contrast adjustments become invalid.



Figure 2-409

5) Edge emphasis

Edge emphasis is a kind of processing which emphasizes light and shade in order to make the image appear sharp. (Figure 2-410)





Density processing is performed by comparing the data in the conversion table provided for performing edge emphasis, with the target picture element. (Refer to Figure 2-411.)

The stages in edge emphasis can be changed by changing the conversion table and reproduction ratio (B) of the conversion table. If the density of the target picture element is increased fourfold and the density of the other four points multiplied by -1, the overall density will remain unchanged.





6) Binarizing

Image binarizing is described below. For the "Advanced text enhancement," refer to the section entitled "Image Processing in the Computer."

a) Simple Binarizing

Binary image data can only express picture elements as either "black" or "white."

In order to separate the picture elements into black and white, signals corresponding to the image density of the document must be cut off at a certain level, so that anything above that level is judged as "white" and anything below as "black." This is called simple binarizing. This is useful for text documents. Simple binarizing for this machine is called "Black and White" mode.

The level at which picture elements are to be divided into white or black is called the "slice level" (or threshold value).



Figure 2-412

b) Error diffusion

Error diffusion processing is used to binarize documents containing gray levels, such as pictures and photos.

A sample case is shown below, where the output is set to 4 bits and the slice level is set to 8.

The value of 1 picture element of input image data is compared with the slice level. When it is smaller than the slice level, it is output as "0" and when it is bigger then the slice level, it is output as "15". The difference between the values of the input and output picture elements is then added to the next picture element to be processed.

First, when processing the first low of Line 1, since the data "12" is larger than the slice level "8", the output data becomes "15", and the resultant error becomes -3(=12-15). (Refer to Figure 2-413.)



Figure 2-413

Next, when processing the second row of Line 1, since the error is diffused to the right, the data of the picture element of the second row of Line 1 becomes "6"(=9-3).

As this value is smaller than the slice level, the output data is "0" and the error becomes "+6"[=(9-3)-0]. (Refer to Figure 2-414.)

The third row of Line 1 and later are processed similarly.



Figure 2-414

Line 2 is processed using the first row of Line 2 as a reference. If the rest is processed similarly, the data becomes as shown in Figure 2-415.





Figure 2-416 shows a comparison of binarizing with error diffusion processing, and binarizing without error diffusion processing (simple binarizing).

12	9	6	3	1	9	13	
10	13	5	4	2	7	13	
9	12	6	3	1	10	9	
11	8	5	0	3	5	10	
12	9	2	7	6	9	11	





Digital signal output

With error diffusion processing

Without error diffusion processing

c) Automatic brightness adjustment

This adjustment automatically controls the brightness of the scanned image according to the density of the document's background in the simple binary mode.

The brightness is adjusted by assessing the brightness line by line, and adjusting the level for the next line to be scanned. This process is known as ABC (Auto Back-ground Control).

When the number of pixels of specified brightness in a line exceeds the predetermined value for the document size, the brightest output is transformed gradually, line by line.

Figure 2-417 shows the difference in output when reading a text document with a colored background.



Figure 2-417

4. Image Processing in the Computer

Various types of image processing can be executed in the computer, in addition to the processing executed in this machine.

- Advanced text enhancement
- Automatic size detection
- Skew correction (deskew)
- Erase black border, etc.

The main types of image processing are described below. For others, refer to the driver software "Help".

1) Advanced text enhancement

In this mode, a histogram of brightness level for each block within the scanned data is calculated, and an optimum slice level is determined to binarize the pixels. Binarizing in this way removes the background, for example, from behind text printed on a background.

For example, as shown in the image in Figure. 2-418, a histogram for each block is calculated, and the optimum slice level is determined to binarize the pixels.



Figure 2-418

2) Automatic size detection

When automatic size detection is selected, images are scanned using the maximum size. Next, in processing block 2 of the QQ-chip in the controller in this machine (for 2nd stage), the image data is converted into 100 dpi black & white data to facilitate processing in the computer. This data is then processed in the computer and the maximum outer frame points of the image are calculated. The result is fed back to the controller, only the data corresponding to the square area formed by the maximum outer frame points is processed again image according to the user's selected conditions, and this data is then output to the computer.

However, since what is used are the maximum outer frame points, the square that is calculated includes any existing skew of the document.

Moreover, if the document is fed using the feeder, the size of the document in the sub-scan (length) direction is determined according to the data of the read sensor (PI8).



Figure 2-419

Before processing

After processing



3) Skew correction (Deskew)

When image skew correction (deskew) is enabled, the driver detects the angle of skew from the black frame that is formed. Then image data is loaded at a size slightly larger than the user-specified paper size. The skew angle is corrected for, so that the image data is restored to the set image size. However, skew correction may not work properly if the document has dark areas on its left and right edges or if the brightness setting is incorrect.



5. Power supply

1) Outline

The power supply PCB of this machine is capable of handling power input of 100 to 240 VAC.

Figure 2-422 shows a block diagram of the power supply PCB.

AC power is supplied to the power supply PCB by turning on the power switch.

The 100 to 240 VAC power is converted by a rectifying bridge to unsmoothed 100 to 240 VUN and sent to the booster assembly. At the booster assembly, the power is temporarily raised to 380VDC and then converted to 24VDC. A fuse is used in the power supply PCB to protect against over-current situations. 24VDC is output from the power supply PCB to the DC controller PCB. The necessary voltage is generated by each regulator on the DC controller PCB. (Refer to Figure 2-423)

24V and 13V are supplied to the reader and feeder from a DC controller PCB. The required voltage is generated within the reader and feeder.







Figure 2-423

2) Protection function

The power supply PCB is a switching regulator type.

If the load is shorted and there is an over-current situation, the protection function is activated and the output is stopped.

Once the output stops, it can be automatically restored by turning the power switch off, eliminating the cause of the short circuit, discharging the capacitor (for about 10 minutes) and then turning on the power switch.

A fuse is used for protection on each PCB. If an excessive current flows into the DC/DC converter, the fuse blows and stops the power supply to the PCB.

Note, however, that this machine supplies power to each motor even when the feeder cover is open. 3) Power saving mode

This machine will shift into the power saving mode if no key or pickup operation takes place for 10 minutes or more, when the power is on. In the power saving mode, power consumption is minimized and the electrical circuits enter the "sleep" state. The CPUs, however, do not shift into power saving mode.

The machine shifts back to the ready mode when any communication is carried out on the computer side or when any key on the operation panel is pressed.

Setting the power saving mode is carried out in the user mode.

6. Interface

When sending data from this unit to a computer, the data is transmitted over an interface. This unit provides both SCSI-3 and USB 2.0 interfaces.

1) SCSI-3

SCSI-3 (Small Computer System Interface-3) is a Parallel Interface standard. This unit supports Ultra SCSI and the data transfer rate between the machine and the personal computer is up to 20 MB/sec.

Figure 2-424 shows the data input/output between the machine and the computer, when connected with SCSI-3. Table 2-402 gives the signal descriptions for the SCSI connector.





Pin No.	Signal	Remarks
1-12	GND	(Ground)
13	OPEN	(Non-connection)
14-25	GND	(Ground)
26	DB0*	(Data Bit 0)
27	DB1*	(Data Bit 1)
28	DB2*	(Data Bit 2)
29	DB3*	(Data Bit 3)
30	DB4*	(Data Bit 4)
31	DB5*	(Data Bit 5)
32	DB6*	(Data Bit 6)
33	DB7*	(Data Bit 7)
34	DBP*	(Odd Parity Data Bit)
35-37	GND	(Ground)
38	TERMPWR	(Termination Power)
39-40	GND	(Ground)
41	ATN*	(Attention)
42	GND	(Ground)
43	BSY*	(Busy)
44	ACK*	(Acknowledge)
45	RST*	(Reset)
46	MSG*	(Message)
47	SEL*	(Select)
48	C/D*	(Control/Data)
49	REQ*	(Request)
50	I/O*	(Input/Output)

The asterisk "*" at the end of the signal name denotes the signal is low-active.

Table 2-402

The SCSI bus is made up of data signals (1 byte + parity bit = 9 signals) and control signals (9 signals) for a total of 18 lines. 2) USB 2.0

USB 2.0 (Universal Serial Bus 2.0) is a serial interface standard, and provides fast data transmission.

This machine supports Hi-Speed USB 2.0, and the data transfer rate between the unit and the computer is up to 480 Mbits/sec.

Figure 2-425 shows the data input/output between the machine and the computer when connected with USB. Table 2-403 gives the signal descriptions for the USB connector.



Figure. 2-425

Pin No.	Signal	Remarks			
1	VBUS	Vcc (+5V)			
2	DM	Differential signal (-)			
3	DP	Differential signal (+)			
4	GND	Ground			

Table 2-403

USB is also referred to as a differential interface, and uses 2 signal lines for a single signal.

V. OPTION

1. Stamp

This option is used to stamp documents scanned with the feeder as "scanned". A stamper is provided at the tip of the stamp solenoid.





Feeding stops 100 ms after the trailing edge of the document clears the platen roller. During this time, the stamp solenoid (SL1) is switched ON and the document is stamped. In the case of the duplex mode, both sides of the document are stamped. Figure 2-502 shows the stamping location.



Figure 2-502

After the stamper is replaced with a new one, approximately 7,000 documents can be stamped.

When installing a stamp, be sure to valid Feeder > OPTION > STAMP-SW for the service mode, in order to make the machine recognize the stamp.

Refer to "CHAPTER 4 INSTALLATION & MAINTENANCE" for installation of the stamp solenoid.

2. Network Scanning Adapter: NSA-01

This option is a scanner control box for using the scanner as a network scanner. By connecting the NSA-01 to the DR-7080C, it is possible to send image data from a control computer to another computer, etc., use the document scanning network. For details, refer to the NSA-01 user manual and the Service Information. Note, however, that the NSA-01 must be a version that supports DR-7080C.



Figure 2-503

VI. ELECTRICAL PARTS LAYOUT

1. Feeder

1) Sensors



Figure 2-601

Category	Symbol	Name
Photo interrupter	PI1	Registration sensor
	PI2	Pressure HP sensor
	PI3	A4R/LTRR sensor
	PI4	LGL sensor
	PI5	Document set sensor
	PI6	Feeder cover opening sensor
Sensor PCB	PI7	Post-separation sensor
	PI8	Read sensor
	PI9	Delivery reversal sensor
LED	LED1	Document set display

Table 2-601

2) Motor, PCB, others



Figure 2-602

Category	Symbol	Name
Motor	M1	Pickup motor
	M2	Feed motor
	M3	Delivery reversal motor
	M4	Pressure motor
Clutch	CL1	Pickup clutch
Solenoid	SL1	Stamp solenoid (option)
	SL2	Pressure solenoid
Fan	FM1F	Cooling fan
PCB	PCB1F	ADF driver PCB
Volume	VR1	Document width volume

Table 2-602

2. READER





Category	Symbol	Name
Photo interrupter	PS501	Scanner HP sensor
	PS502	ADF opening sensor 1
	PS503	ADF opening sensor 2
Lamp	LA1	Scanning lamp
Motor	M501	Scanner motor
Fan	FM501	Cooling fan
РСВ	PCB1R	Reader controller PCB
	PCB2R	Interface PCB
	PCB3R	Inverter PCB
	PCB4R	CCD/AP PCB

Table 2-603

3. CONTROLLER



Category	Symbol	Name
Switch	SW1	Power switch
Fan	FM1C	Cooling fan
РСВ	PCB1C	DC controller PCB
	PCB2C	Power supply PCB
	PCB3C	Switch PCB
	PCB4C	LCD

Table 2-604

VII. LISTS OF CONNECTORS/SW/LED OF EACH PCB

Items that are not listed in the lists and items that are specified as usage prohibited must not be procured in the market.

A. Controller

1. DC Controller PCB



Figure 2-701

Connector Description		Description
J101	50P	SCSI I/F
J102	50P	SCSI I/F
J103	4P	USB I/F
J105	4P	(For factory/design)
J106	36P	Image data
J107	4P	24VDC power supply input
J109	32P	Operation panel
J110	2P	Power supply standby signal
J114	4P	24VDC power supply input
J116	4P	DC power supply output
J118	3P	Cooling fan

Table 2-701



Table 2-702

LED	Description
LED101	24VDC supply: Lit*
LED103	CPU (SH1) normal operation: Flashing
LED104	IC (XILINX) normal operation: Flashing
LED105	3.3VDC supply: Lit
LED106	13VDC supply: Lit*
LED109	5VDC supply: Lit
LED111	1.8VDC supply: Lit*

Note:LED101/106 are extinguished during sleep.

LED111 is dark.

Table 2-703

2. Power Supply PCB



Figure 2-702

Connector Description		Description
CN1	4P	24DVC power supply output
CN3	4P	24DVC power supply output
CN6	3P	Power supply standby signal
CN7	3P	AC power supply input

Table 2-704

3. Switch PCB



Figure 2-703

Connector E		Description
J201	14P	SW/LED signal

Table 2-705

LED	Description
LED201	For new file
LED202	For start

Table 2-706

Note:For details on the switches (SW200 to SW208), refer to "CHAPTER 1 GENERAL DESCRIPTION" or to the user manual.

B. READER

1. Reader Controller PCB



Figure 2-704

Connector		Description	
J201	8P	DC power supply input	
J202	35P	Feeder system signal	
J203	50P	Controller system signal, scanner motor signal	
J204	50P	Communication with CCD	
J205	40P	Communication with CCD	
J206	9P	Connected to inverter PCB	

Note: J207, 208, 209, and 210 are not used.

Table 2-707

Switch	Description
SW1	 For factory/design Do not use in market.
	Setting at shipping
	ON 1 2

Table 2-708

2. Interface PCB



Figure 2-705

Connector		Description
J301	4P	DC power supply input
J303	36P	Communication with controller
J305	14P	Communication with feeder
J306	6P	Scanner motor
J307	50P	Communication with reader controller PCB
J308	35P	Communication with reader controller PCB
J309	9P	DC power supply output to reader controller PCB
J310	9P	Sensor (3 pcs)
J312	2P	DC power supply output to ADF driver PCB
J313	3P	Cooling fan

Note: J302 is not used.

3. Inverter PCB



Figure 2-706

Conn	ector	Description
CN1	9P	Connected to reader controller PCB
CN2	4P	Scanning lamp

Note:CN2 carries a high voltage and caution is therefore required.

Table 2-710

Note: In the market, do not touch the volume (VR31).
C. FEEDER

1. ADF Driver PCB



Connector		Description			
J1	16P	Read sensor, pressure HP sensor, delivery reversal sensor, stamp solenoid			
J2	12P	Post-separation sensor, document set sensor, feeder cover sensor, document set LED			
J3	9P	Document width volume, A4R/LTRR sensor, LGL sensor			
J4	7P	Communication with reader			
J5	8P	Communication with reader			
J6	2P	24VDC power supply input			
J8	7P	Feed motor			
J9	6P	Pressure solenoid, pressure motor			
J10	8P	Pickup clutch, delivery reversal motor			
J11	6P	Pickup motor			
J12	3P	Cooling fan			
J14	3P	Registration sensor			
		Table 2-711			

Figure 2-707

LED	Description
LED101	24VDC supply: Lit*

Note:LED101/106 are extinguished during sleep.

Table 2-712

CHAPTER 3

DISASSEMBLY & REASSEMBLY

I.	MAIN UNIT3-1	111.	READER3-35
II.	FEEDER3-5	IV.	CONTROLLER

I. MAIN UNIT

When disassembling the main unit a preparation should be made to determine locations of units after disassembly. Since each of the units is heavy, it should be handled carefully to prevent damage and accidents. The feeder weighs approximately 15 kg, the reader, approximately 14 kg, and the controller, approximately 5 kg.

 Remove the 3 knurling screws ① and slide the feeder ② toward the rear, releasing it from the stoppers ③, and lift it away.





- 1. Feeder
- Remove the cable (with locks) ① Flip open the rubber covers of the left and right hinge parts, remove the screws ② (2 each on the left and right), and remove the angle guide plate ③.

Open the feeder to 90 degrees.



Figure 3-101

Note: When the feeder is opened to 90 degrees, the center of gravity moves backwards, so open it gently.

- **Note:**The feeder weighs approximately 15 kg, so handle it with care when removing it and placing it back. If necessary, perform such work with the assistance of another person.
- Note: If the failures such as the image right angle and so on occur after installing the feeder, adjust the position of feeder. Refer to the "CHAPTER 5 IV. FEEDER ADJUSTMENT" for details.

2. Reader/Controller

- 1) Remove the feeder.
- 2) Remove the 2 cables (with locks) 1.



Figure 3-103

Remove the screws 2 holding the operating panel assembly 1 (1 each on the left and right).





4) Remove the 2 fitting parts ① (marked with △) using a tool with a flat and thin tip, and detach the operation panel assembly ②.

Disconnect the connector that connects the operation panel assembly and controller.

Note:Take care to prevent damage to the platen glass.



Figure 3-105

Note:When assembling the operation panel assembly, insert the pasted sheet ① under the platen glass.



Figure 3-106

5) Remove the screws ① (2 each on the left and right), and remove the left and right bottom covers ②.



Figure 3-107

6) Remove the 12 screws ① (4 each on the left and right, 4 in front).



- Remove the 5 screws ①, release the left and right hooks ②, and detach the reader rear cover ③.
- **Note:** Take care to prevent damage the ADF opening sensor arm ④.



Figure 3-109

Note: When installing the reader rear cover, insert the pasted sheet under the platen glass. See the "Reader Rear Cover" Section for details.



Figure 3-108

8) Slide the reader ① slightly to the rear. It stops soon because there is an emboss
② on the left. Release the emboss through the opening in the side plate. Lift the rear of the reader slightly and slide it to the position where your hand can be put into the front side.





Figure 3-110

9) Hold tightly the reader and lift it up.





Note: The reader weighs approximately 14 kg and the controller approximately 5 kg, total 19 kg, so proceed with care when removing them and placing them back. In particular, be careful not to get your fingers pinched. If necessary, use the assistance of another person.

Reference: How to remove the reader without sliding

The reader can also be removed as follows in place of performing steps 7 to 9. However, it should be done with care because you hold less areas.

Hold diagonal corners of the reader ① from bottom and lift the reader.



Figure 3-112

CHAPTER 3 DISASSEMBLY & REASSEMBLY

II. FEEDER

Take care not to damage the platen glass. It is recommended that you put a protective sheet on the platen glass.

When the feeder is opened slightly, it is automatically and fully opened.

A. External Covers

1. Front Cover

 Remove the 3 screws ①, and detach the front cover ② in the direction of the arrow.



Figure 3-201

2. Rear Cover

 Open the feeder cover ① and the document pickup tray ②; then, remove the 4 screws ③. Widen the right side slightly, release the hook ④ and detach the rear cover ⑤.



Figure 3-202

3. Lower Left Cover

- 1) Remove the front cover.
- 2) Remove the 2 screws ①, and detach the lower left cover ②.



Figure 3-203

4. Feeder Cover

- 1) Remove the front cover.
- 2) Remove the E-ring 1.



Figure 3-204

Remove the screw ① and the positioning pin ②; then, detach the feeder cover ③.

5. Inside Cover

 Open the feeder cover, remove the 2 screws ①, and remove the fitting part ②; then, detach the inside cover ③.



Figure 3-206



Figure 3-205

B. Drive System

1. Pickup Motor

- 1) Remove the rear cover.
- Disconnect the connector ①, and remove the 2 screws ②; then, detach the pickup motor ③.



Figure 3-207

Note: When mounting it, be sure that the timing belt ① is securely fitted to the pulley. For this purpose, the pickup clutch or drive unit must be removed.



Figure 3-208

2. Feed Motor

- 1) Remove the rear cover.
- 2) Remove the screw ①, and free the cooling fan ②.



Figure 3-209

 Loosen the 2 screws ①, move the feed motor ② downwards, and tighten the 2 screws ①.



Figure 3-210

Note: When mounting it, loosen the screws and return the feed motor to its original position.

 Disconnect the connector ① and remove the 2 screws ②; then, detach the feed motor ③.



Figure 3-211

Note: When mounting it, be sure that the timing belt ① is securely fitted to the pulley.



- 3. Delivery Reversal Motor
- 1) Remove the rear cover.
- Remove the 2 screws ①, and disconnect the connector ②; then, detach the delivery reversal motor ③.



Figure 3-214

Note: If it is difficult to remove or tighten the lower screw holding the motor, remove the harness guide.

Figure 3-212

Note: The feed motor can be distinguished from the pickup motor by shaft length. The feed motor has a longer shaft than the pickup motor.



Figure 3-213

4. Pressure Motor

- 1) Remove the front cover.
- Remove the screw ①, and disconnect the 2 connectors ②; then, free the harness guide ③.



Figure 3-215

 Remove the 3 screws ①, and disconnect the connector ②; then, detach the pressure motor drive unit ③.



Figure 3-216

 Remove the 2 screws ①, and the fitting part ②; then, free the pressure motor assembly.



Figure 3-217

5) Remove the 2 screws ①, disconnect the connector ②, and remove the timing belt
③; then, detach the pressure motor ④.



Figure 3-218

Note: When installing the pressure motor drive unit ①, place the pressure lever② on the upper part of the driving cam.



Figure 3-219

5. Drive Unit

- 1) Remove the rear cover.
- 2) Remove the inside cover.
- Remove the screw ①, and disconnect the 4 connectors ②; then, detach the harness guide ③ from the harness.



5) Remove the 2 screws ① and free the harness guide ②.





Figure 3-220

 Remove the 3 screws ①, and detach the delivery reversal roller unit ②.



Figure 3-221

- Remove the 4 screws ①, remove the hook of the connection guide ② and detach the drive unit ③.
- Note: Be sure to free the harness from the wire saddle ④. Do not catch the cable that is located below the drive unit. Be careful not to lose the bearing of the pickup clutch shaft.





Figure 3-223

Precautions on assembly

- 1) Be careful not to get cables caught or pinched.
- Install the connection guide for the pickup unit by aligning groove direction and shaft end shape. Align the flat part ① of the shaft and the hook position ② of the connection guide.





3) Make sure that the arm ① of the pickup clutch is above the pin ②. Be sure that the timing belt ③ is securely fitted to the pulley.



Figure 3-225

C. Feeding System

1. Pickup Roller Unit

- 1) Open the feeder cover and detach the inside cover.
- Remove the 2 plastic E-rings ① and 2 bushings ②; then, detach the pickup roller unit ③.



Figure 3-226

2. Pickup Roller/Feeding Roller

- 1) Remove the pickup roller unit.
- Remove the 3 plastic E-rings ①, and detach the pickup roller support base ②.
- Note: The pin ③ will come off upon detachment. Take care not to lose it.





- Remove the pin ① and detach the feeding roller ②.
 Then, remove the plastic E-ring ③ and the pickup roller ④.
- Note: Pay attention to the installation direction of the pickup roller and the feeding roller. Install the pre-separation guide (5) at the fitting part for the roller support base by flexing it.



Figure 3-228

3. Separation Pad/ Separation Plate

- 1) Remove the inside cover
- 2) Remove the pickup roller unit.
- Remove the 2 screws ①, push down the top of the separation pad assembly ②, release the fitting part, and remove the assembly.



Figure 3-229

 Remove the two springs ① and one pressure adjustment block ② on the back of the separation pad assembly.



Figure 3-230

5) Push down the two hooks ② on the separation pad B ① and detach the separation pad B. At this time, the separation pad ③ and separation plate ④ will come off.





Notes on reassembly:

- Before installing the separation pad B, install the separation pad on the separation plate.
- Take care not to mistake the installation positions of the springs. Install the spring
 with a fold so that it is upstream to the feed direction.



Figure 3-232

Reference: Separation pressure adjustment

This adjustment should be performed in case of the double feed. Normally, it is not required.

Pressure adjustment block	Separation pressure			
Side A	Small			
Side B	Large			
Table 3-201				

 Turn the pressure adjustment block ① installed on the spring over, and install it. (From side A to side B)



Figure 3-233

4. No. 1 Registration Roller Follower

- 1) Remove the front cover.
- 2) Remove the feeder cover.
- Remove the 4 screws ① and detach the cover ②.



Figure 3-234

- Remove the screw ①, and remove the support plate; then, detach the No. 1 registration roller follower ②.
- Note: 4 coil springs may come off upon detachment. Be careful not to lose them.



Figure 3-235

5. No. 1 Registration Roller

- 1) Remove the front cover.
- 2) Remove the rear cover.
- Remove the screw ①, and disconnect the 2 connectors ②; then, free the harness guide ③.



Figure 3-236

- 4) Remove the 2 screws ①, and remove the spring ②; then, detach the pressure solenoid unit ③.
- Note: It may be difficult to remove the unit because a cushioning rubber sheet has been attached to the rear of the solenoid mounting plate.



- Figure 3-237
- **Note:** Upon assembly, insert the solenoid plunger into the arm notch.

5) Remove the 3 screws ① and detach the delivery reversal roller unit ②.



Figure 3-238

Remove the 2 screws ①, and detach the pre-registration guide ②.



Figure 3-239

 Remove the E-ring ① and bushing ② on the front side.



Figure 3-240

8) Remove the E-ring ①, gear ②, and bushing ③ on the rear side.



Figure 3-241

9) Remove the No. 1 registration roller ①.



Figure 3-242

6. No. 2 Registration Roller Follower

- 1) Remove the front cover.
- 2) Remove the feeder cover.
- Remove the 4 screws ① and remove the cover ②.



Figure 3-243

- Remove the screw ①, and remove the support plate; then, detach the No. 2 registration roller follower ②.
- Note: 4 coil springs may come off upon detachment. Be careful not to lose them.



Figure 3-244

7. No. 2 Registration Roller

- 1) Remove the front cover.
- 2) Remove the rear cover.
- 3) Remove the screw ① and free the cooling fan ②.



Figure 3-245

4) Loosen the 2 screws ①, move the feed motor ② downwards, and tighten the 2 screws ①.



Figure 3-246

Note: When mounting it, loosen the screws and return the feed motor to its original position.

 Remove the 4 screws ①, and disconnect the connector ②; then, detach the feed motor unit ③.



Figure 3-247

 Remove the 3 E-rings ①, the 3 gears ②, and the 2 bushings ③; then, open the roller cover ④ and detach the No. 2 registration roller ⑤.



Figure 3-248

Note: Upon installation, install the timing belt on the feed roller side at its original position.

8. Delivery Reversal Upper Roller

- 1) Remove the front cover.
- 2) Remove the rear cover.
- Remove the 3 screws ①, and detach the delivery reversal roller unit ②.



Figure 3-249

- 4) Remove the 4 screws ① and detach the drive unit ②.
- Note: Be sure to free the harness from the wire saddle ③. When mounting it, be sure to route the harness through the wire saddle.



- **Note:**For precautions on drive unit installation, see the "B. Drive System, 5. Drive Unit".
- 5) Remove the E-ring ① and the bushing② on the front side.





 Remove the E-ring ①, gear ②, and bushing ③ on the rear side.



Figure 3-252

Figure 3-250

7) Remove the delivery reversal upper roller①.



Figure 3-253

9. Read Roller 1

- 1) Remove the front cover.
- 2) Remove the rear cover.
- 3) Remove the feeder cover.
- Remove the screw ①, and disconnect the 2 connectors ②; then, detach the harness guide ③.





 Remove the 3 screws ①, and disconnect the connector ②; then, detach the pressure motor drive unit ③.



Figure 3-255

 Remove the screw ①, and disconnect the connector ②; then detach the cooling fan ③.



Figure 3-256

 Loosen the 2 screws ①, move the feed motor ② downwards, and tighten the 2 screws ①.



Figure 3-257

Note: When mounting it, loosen the screws and return the feed motor to its original position.

 Remove the 4 screws ①, and disconnect the connector ②; then, detach the feed motor unit ③.



Figure 3-258

Note: When mounting it, be sure that the timing belt ① is securely fitted to the pulley.





8) Remove the platen roller. See the "Platen Roller" Section for details.

 Open the opening guide ①, remove the two screws ②, and remove the feed guide ③ by freeing its bottom slightly from the read roller.



Figure 3-260

Note: When installing the feed guide, secure it so that (both) projections ① touch the metal plate ② to keep the clearance for document feeding constant.



Figure 3-261

10) Remove the E-ring ①, gear ②, and bushing ③ on the front side.



Figure 3-262

11) Remove the E-ring ①, gear ②, and bearing ③ on the rear side.



Figure 3-263

12) Release the pressure spring ①.



Figure 3-264

- Note: When installing the pressure spring, install it at its correct position so that both ends of it do not project to the outside.
- 13) Remove the 2 E-rings ①.



Figure 3-265

14) Slide the bushing ① (equipped with a plate) to the rear to detach the platen roller follower 1 unit ②.



Figure 3-266

Note: When the roller shaft of the unit is removed, the platen roller follower 1 unit falls. Be careful not to lose it. When reinstalling it, insert both ends of the roller shaft into the holes in the bushings with a plate. 15) Open the feeder, and push down the read roller 1 unit ①, and remove it.



Figure 3-267

16) Remove the 2 E-rings ①, the 2 pressure springs ②, and the 2 bushings ③ with a plate; then, detach the read roller 1 ④.



Figure 3-268

10. Platen Roller

 Remove the screw (self-tapping) ①, slide the platen roller follower 2 unit ② upwards, and remove the fitting part ③. Then, remove the platen roller downstream.



Figure 3-269

Note: Upon installation, push in the platen roller follower 2 unit.

2) Detach the belt ①, and remove the 2 plastic E-rings ②, and the 2 bushings ③; then, detach the platen roller ④.



Figure 3-270

Note: Upon installation, align the metal and plastic bushing insertion position with the bushing notch position to install the bushing.

11. Delivery Reversal Lower Roller

- 1) Open the feeder cover, and detach the inside cover.
- Open the opening guide ① slightly and remove the section A, open it widely and slide it, remove the opposite fitting part.



Figure 3-271

Remove the 2 screws ①, and detach the reversal guide ②.

Note: Cables are connected to the rear of the reversal guide.



Figure 3-272

 Push down the roller guide ①, and push down and detach the delivery reversal lower roller ②.



Figure 3-273

Note: When installing the delivery reversal lower roller, align the roller shaft with the roller guide groove, then turn the roller.

12. Reversal Upper Roller

- 1) Remove the opening guide.
- Remove the E-ring ①, and remove the shaft ②; then, detach the reversal upper roller ③.



Figure 3-274

Note: 2 coil springs will come off. Be careful not to lose them.

13. Reversal Lower Roller

- 1) Remove the front cover.
- 2) Remove the rear cover.
- Remove the screw ①, and disconnect the 2 connectors ②; then, free the harness guide ③.



Figure 3-275

 Remove the 3 screws ①, and disconnect the connector ②; then, detach the pressure motor drive unit ③.



Figure 3-276

5) Remove the screw ①, and free the cooling fan ②.





 Loosen the 2 screws ①, move the feed motor ② downwards, and tighten the 2 screws ①.



Figure 3-278

Note: When mounting it, loosen the screws and return the feed motor to its original position.

 Remove the 4 screws ①, and disconnect the connector ②; then, detach the feed motor unit ③.



Figure 3-279

 Remove the 2 E-rings ①, gear ②, and 2 bushings ③; then, detach the reversal lower roller ④.



Figure 3-280

14. Dust-Collecting Tape

Remove the dust-collecting tapes (A), (B), (C), (D), and (E); then, attach new dust-collecting tapes over the same locations (A), (B), (C), (D), and (E).





Figure 3-281

D. Control System

1. ADF Driver PCB

- 1) Remove the rear cover.
- Remove the 3 screws ①, and disconnect the 7 connectors ②; then, detach the harness guide ③.



Figure 3-282

 Disconnect the 5 connectors ①, and remove the 2 screws ②; then, detach the ADF driver PCB ③.



Figure 3-283

2. Document Width Volume

- 1) Open the feeder cover and detach the inside cover.
- Shift up the document pickup tray; then, remove the 3 screws ①, and detach the document pickup tray cover ②.





 Disconnect the 3 connectors ①, and remove the 2 screws ②; then, detach the document width volume ③.



Figure 3-285

Note: Mounting

Widen the document guide ① to its maximum width. Next, fully rotate the gear ② counterclockwise so that the arrows ③ meet up.



Figure 3-286

3. Post-Separation Sensor

- 1) Open the feeder cover and remove the inside cover.
- Remove the two screws ①, and disconnect the connector on the back; then, detach the post-separation sensor ②.





Note: After sensor replacement, sensor adjustment must be performed. See the "AFTER REPLACING PARTS" section for details.

4. Read Sensor

- 1) Remove the front cover.
- Open the opening guide ①, remove the two screws ② and connector ③, and remove the feed guide ④ by freeing its bottom slightly from the read roller.



 Remove the 2 screws ①, and disconnect the connector ②; then, detach the read sensor ③.



Figure 3-290

Note: After sensor replacement, sensor adjustment must be performed. See the "AFTER REPLACING PARTS" section for details.

Figure 3-288

Note: When installing the feed guide, secure it so that (both) projections ① touch the metal plate ② to keep the clearance for document feeding constant.



Figure 3-289

5. Delivery Reversal Sensor

 Open the opening guide ① slightly and remove the section A, open it widely and slide it, remove the opposite fitting part, and remove the opening guide.



Figure 3-291

2) Remove the 2 screws ①, and turn the delivery guide ② over.



Figure 3-292

 Remove the 2 screws ①, and disconnect the connector ②; then, detach the delivery reversal sensor ③.



Figure 3-293

Note: After sensor replacement, sensor adjustment must be performed. See the "AFTER REPLACING PARTS" section for details.

6. Pressure Solenoid

- 1) Remove the front cover.
- Remove the screw ①, and disconnect the 2 connectors ②; then, free the harness guide ③.



4) Remove the 2 screws ①, and detach the pressure solenoid ②.





Figure 3-294

- Remove the 2 screws ①, and remove the spring ②; then, detach the pressure solenoid unit ③.
- **Note:** It may be difficult to remove the unit because a cushioning rubber sheet has been attached to the rear of the solenoid mounting plate.



Figure 3-295


7. Pickup Clutch Unit

- Remove the 2 screws ①, disconnect the connector ②, and detach the mounting plate ③.
- **Note:**The bushing attached to the mounting plate will also come off. Be careful not to lose it.



Figure 3-297

- Slide the pickup clutch unit ① slightly toward you, and release the hook ② of the connection guide. Detach the pickup clutch unit while moving it so that the clutch arm ③ does not strike any other parts.
- **Note:** The bushing attached to the clutch shaft will also come off. Be careful not to lose it.





Figure 3-298

Precautions on assembly

- Align the connection guide position with the clutch shaft position for assembly. Pay attention to the clutch arm position. See the "Drive Unit" section for details.
- Insert the projection ② on the mounting plate into the groove ① for clutch positioning.



8. Cooling Fan

- 1) Remove the rear cover.
- Remove the screws ①, and disconnect the connector ②; then, detach the cooling fan ③.



Figure 3-300

Figure 3-299

III. READER

A. Exterior

1. Platen Glass

 Remove the 2 screws ①, and detach the right glass retainer ②; then, detach the platen glass ③.



Figure 3-301

Note: When detaching the platen glass, take care not to touch the standard white plate attached to its back. If soiled, clean it.

2. ADF Reading Glass

1) Remove the 2 screws ①, and detach the glass retainer ②.



Figure 3-302

2) Pull out the ADF reading glass ①.



Figure 3-303

3. Operation Panel Assembly

1) Remove the 2 screws ① (1 each on the left and right).



Figure 3-304

2) Remove the 2 fitting parts ① (marked with △) using a tool with a flat and thin tip, and detach the operation panel assembly ②.

Disconnect the connector that connects the operation panel assembly and controller.

Note:Take care to prevent damage to the platen glass.



Figure 3-305

Note:When assembling the operation panel assembly, insert the pasted sheet ① under the platen glass.



Figure 3-306

4. Reader Left/Right Covers

1) Remove the 2 screws ①, and detach the reader right cover ②.





2) Remove the 2 screws ①, and detach the reader left cover ②.



Figure 3-308

5. Reader Rear Cover

 Disconnect the 2 connectors ① (with locks) and remove the 2 screws ②.



Figure 3-309

- 2) Flip open the rubber covers ① of the left and right hinge parts, remove the screws
 ② (2 each on the left and right), and detach the 2 angle control plates ③.
- **Note:** This work is performed to easily remove screws in step 3 below.



Figure 3-310

- Remove the 3 screws ①, and slide the reader rear cover ② toward the rear to detach.
- **Note:**Take care not to damage the ADF opening sensor arm ③.





Note:When installing the reader rear cover, insert the sheet ① pasted to the cover under the platen glass.



Figure 3-312

B. Drive/Control System

1. CCD Unit Cover

- 1) Detach the platen glass, reader right cover.
- 2) Remove the 9 screws ①, release the 2 hooks ②, and detach the CCD unit cover ③.





Figure 3-313

2. Scanning Lamp

- 1) Remove the platen glass and other external covers.
- 2) Detach the CCD unit cover.
- Disconnect the connector ①, release the hook of cable stopper ②, and free the cable ③ from the cable guide ④.



Figure 3-314

- Slide the No. 1 mirror base ① to the right to match it against the cut-off ② of the frame.
- Note: When sliding the No. 1 mirror base, be sure to hold it by the cut-up tab (A) of the mirror stay.



Figure 3-315

5) Remove the 2 screws ①, and detach the scanning lamp ②.



3. Reader Controller PCB

- 1) Remove the platen glass and reader right cover.
- 2) Detach the CCD unit cover.
- Disconnect the 5 flat cables ① and the connector ② then, remove the 4 screws
 ③, and detach the reader controller PCB
 ④.





Note: Disconnecting the flat cable

Slide the locking lever ① to the direction of the arrow; then, disconnect the flat cable ②.



Figure 3-318

Note:For a measure to be taken after replacing the reader controller PCB, see the "AFTER REPLACING PARTS" section.

Figure 3-316

4. Interface PCB

- 1) Remove the reader rear cover.
- Remove the 4 RS tightening screws ①, and remove the 2 binding screws ②; then, detach the interface PCB cover ③.



Figure 3-319

- Disconnect the 7 connectors ①, detach the 2 flat cables ②, and remove the 5 screws ③; then, detach the interface PCB unit ④.
- **Note:**The connectors for the flat cables have the locking lever.



Figure 3-320

4) Remove the 9 screws ①, and detach the interface PCB ②.



Figure 3-321

Note: When installing the interface PCB, place the tie-wrap ① closer to the PCB than to the wire guide ② so that the harness does not touch the scanner motor.



Figure 3-322

5. Inverter PCB

- 1) Remove the platen glass and reader right cover.
- 2) Detach the CCD unit cover.
- Disconnect the connector ① and the flat cable ②; then, remove a screw ③, free the 2 PCB supports ④, and detach the inverter PCB ⑤.



Figure 3-323

Note:For a measure to be taken after replacing the inverter PCB, see the "AFTER REPLACING PARTS" section.

6. CCD Unit

- 1) Remove the platen glass and reader right cover.
- 2) Detach the CCD unit cover.
- Disconnect the 2 flat cables ① from the reader controller PCB; then, remove the 2 screws ②, detach the 2 leaf springs ③, and detach the CCD unit ④.
- **Note:**The connectors for the flat cables have the locking lever.

Note: Do not loose the other screws for positioning the CCD unit.



Figure 3-324

Note:For a measure to be taken after replacing the CCD unit PCB, see the "AFTER REPLACING PARTS" section.

7. Scanner Motor

- 1) Remove the reader rear cover.
- Remove the 4 screws ①, and detach the cover ②.



Figure 3-325

3) Release the 2 hooks of the cable stoppers ①, and free the cover ②.



Figure 3-326

4) Remove the 3 screws ① and the 2 springs ②, and slide the scanner motor ③ toward the arrow.



Figure 3-327

5) Disconnect the connector ①, and detach the scanner motor ②.



Figure 3-328

Note:When mounting the scanner motor, be sure that the timing belt ③ is securely attached to the scanner pulley ① and the motor shaft ②.

> Since the tension of the timing belt is adjusted with the force of 2 springs, install the springs, then secure the screws.



Figure 3-329

Note: When installing the scanner motor, place the tie-wrap ① closer to the interface PCB than to the wire guide ② so that the harness does not touch the scanner motor.



Figure 3-330

8. ADF Opening Sensor

- 1) Remove the reader rear cover.
- 2) Remove the 2 connectors ①.





3) Remove the 4 screws ①, and detach the reinforcing plate ②.



Figure 3-332

4) Free the hook ①, and detach the ADF opening sensor (1, 2).



Figure 3-333

9. Scanner HP Sensor

- 1) Remove the reader rear cover.
- 2) Remove the 4 screws ①, and detach the cover ②.



Figure 3-334

3) Remove the screw ①, and detach the sensor mounting plate 2.



Figure 3-335

4) Remove the screw ①, and detach the scanner HP sensor ②.



Figure 3-336

10. Cooling Fan

- 1) Remove the reader rear cover.
- Remove the screw ① and 2 screws ②, and detach the cooling fan ③.





11. Scanner Drive Cable

- Note:Since this is a complicated disassembly, do it only when required. Special tools are required for assembly. Prepare for the following tools before disassembly:
 - Mirror positioning tool (front, rear) FY9-3009-040
- 1) Remove the feeder.
- 2) Remove the platen glass.
- 3) Remove the other external covers.
- After removing the 2 screws ① and detaching the ADF glass retainer ②, remove the ADF reading glass ③. And remove the 2 screws ④, and detach the left glass retainer ⑤.



Figure 3-338

5) Remove the screw ①, and detach the ADF right screw cover ②.



Figure 3-339

 Remove the screw ①, and detach the ADF left screw cover ②.



Figure 3-340

Remove the 6 screws ①, and detach the interface PCB cover ②.



Figure 3-341

 Disconnect the 9 connectors ①, and remove the 5 screws ②; then, detach the interface PCB ③ together with its base.



Figure 3-342

9) Disconnect the connector ①, and open the 3 wire saddles ②. And remove the 4 screws ③, and detach the motor cover ④ together with the harness.



Figure 3-343

10) Free the harness from the wire saddle①, and remove the 6 screws ②; then, detach the motor frame ③.





 Remove the 4 screws ①, and detach the ADF opening sensor cover ②.





12) Disconnect the 2 connectors ①, and detach the snap-open band ②; then, free the harness from the wire saddle ③.





13) Free the harness from the wire saddle①, and remove the 6 screws ②; then, detach the ADF opening sensor base ③.



Figure 3-347

14) Remove the 24 screws ①, and detach the reader upper frame ②.



Figure 3-348

15) Remove the 2 cable fixing screws ② of the No. 1 mirror base ①. Remove the spring ③ used to hold the cable in place. Free the 2 hooks ④ of the cable from the right side of the reader frame. Then, free the cable from the pulleys.



Figure 3-349

Note: Mounting

Fit the ball of the cable in the hole of the drive pulley ①, and wind the cable (4 times inside, 5 times outside); then, fix it in place using tape or the like. At this time, be sure that the cable fixing ② is on the inside. Next, engage the cable on the pulleys; then, engage one end of the cable on the hook ③ of the left side and the other end on the hook ④ of the right side. And temporarily fix the cable fixing plate ② in place to the No. 1 mirror base ⑤. After that, mount the reader upper frame.





Figure 3-350

 Set the pins at the rear of the mirror positioning tool (FY9-3009-040) in such a way so that the tool may be used for the machine.



Figure 3-351

 Set the pins at the front of the mirror positioning tool in such a way so that the tool may be used for the machine.



Figure 3-352

 Fit the pins of the mirror positioning tool (front ②; rear ③) of the mirror positioning tool into the holes ① of the No. 1 mirror base, No. 2 mirror base, and rail.





Figure 3-353

- 5) Fully secure the ends of the cable (you have temporarily fixed to the hooks of the reader frame previously).
- 6) Tighten the screws for cable fixing plates.
- 7) Detach the mirror positioning tool (front, rear).
- 8) Put back the parts by reversing the steps used to detach them.

IV. CONTROLLER

- 1. DC Controller PCB
- 1) Remove the controller.
- Remove all the connectors connected to the DC controller PCB ①. Remove the 12 screws ②, the 4 screws (M2.5) ③, and then remove the DC controller PCB.



Figure 3-401

Note:Be careful not to get any screws caught between the PCB and the base plate.

2. Power Supply PCB

- 1) Remove the controller.
- 2) Remove the 2 screws (M3 \times 5) ① and flip away the protection sheet ②.



Figure 3-402

 Remove all the connectors connected to the power supply PCB ①.
 Remove the 6 screws ② and then remove the power supply PCB.



Figure 3-403

Note:Be careful not to get any screws caught between the PCB and the base plate.

3. Cooling Fan

- 1) Remove the controller.
- 2) Remove the 2 screws ① for the protection sheet.



Figure 3-404

 Remove the 2 screws ① and then remove the cooling fan (with mounting plate).



Figure 3-405

4) Remove the connector ① and the 2 screws ②, then remove the cooling fan ③.



Figure 3-406

4. Operation Panel Assembly

1) Remove the 2 screws ① (1 each on the left and right).



Figure 3-407

 Remove the 2 fitting parts ① (marked with △) using a tool with a flat and thin tip, and detach the operation panel assembly ②.

Disconnect the connector that connects the operation panel assembly and controller.

Note:Take care to prevent damage to the platen glass.



Figure 3-408

Note:When assembling the operation panel assembly, insert the pasted sheet ① under the platen glass.



Figure 3-409

5. Operation Panel Cover/Panel Case Unit

- 1) Remove the operation panel assembly.
- Remove the 5 screws ① (self-tapping screws), and then separate the operation panel cover ② and the panel case unit ③.



Figure 3-410

6. Switch PCB/LCD Unit

- 1) Remove the operation panel assembly.
- 2) Remove the panel case unit.
- Remove the 4 screws ① (self-tapping screws), and then remove the assembly part ③ while pulling away the 2 hooks ②.



Figure 3-411

4) Remove the connector ① and separate the switch PCB ② and LCD unit ③.



Figure 3-412

Note:Be careful not to lose the key tops embedded in the panel case.

CHAPTER 4

INSTALLATION & MAINTENANCE

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I. SELECTION OF LOCATION

The installation location of DR-7080C should meet the following requirements.

The service technician must personally inspect the user's premises before installing the DR-7080C.

The power supply should be connected to an outlet capable of supplying the voltage shown on the rating plate plus or minus 5%. A grounding plug must be used.

Ground Items

- 1) Power outlet ground terminal
- 2) Lead that has been grounded for office equipment
- Do not install DR-7080C on a weak table, a tilted or unstable surface. The main body weighs approx. 34 kg.
- The theoretical temperature is between 15 to 30°C, and theoretical relative humidity between 25 to 80% RH. However, the temperature should be between 15 to 27.5°C, and relative humidity between 25 to 75% RH to guarantee performance.

In particular, do not install the machine near water faucets, humidifiers, hot water heaters, and refrigerators.

- DR-7080C should not be exposed to open flame, dust, ammonia or other corrosive gases, direct sunlight, intensive vibration or near machinery that generates electromagnetic waves.
 - * Prevent cigarette smoke from coming into direct contact with DR-7080C.
 - * At the places where installation of DR-7080C in the direct sunlight is unavoidable, a heavy curtain should be installed on the windows to protect DR-7080C.
- Maintain sufficient space around DR-7080C during operation and maintenance, and to allow ventilation.
 - * The rear panel has a power cord and ventilation holes, therefore do not press it against a wall.
 - * There must be a sufficient space on both sides of DR-7080C so that it can be held with hands when it is moved.



Figure 4-101

II. UNPACKING AND INSTALLATION

Water droplets sometimes form on the surface of metal parts when the machine is brought into a warm place from a cold place. This phenomenon is called "condensation." Using DR-7080C when condensation has occurred might cause machine trouble. At least one hour should be allowed for DR-7080C to warm up to room temperature before the shipping container is opened after it has been moved to a warm place from a cold place.

No.	Procedure	Check Items/Remarks
	Open the outer packaging box and take out the main body and other items packed with it. Two persons are required to take out the main body. Check that there are no missing items. The packed weight is approx. 47 kg, and the external dimensions are approx. 740 (W) × 780 (D) × 600 (H) mm. (1) Main body (2) Power cord (3) Grounding cord (only for 100 V model) (4) Document size label (5) Cleaning caution label (only for 120 V model and 220-240 V models) (6) Ferrite core (only for 220-240 V models) (7) Quick reference guide (8) Setup disk (CD-ROM) (9) User manual (10) Warranty card (only for 100 V and 120 V models) Note: The main body weighs approx. 34 kg. Hold it firmly from both sides with two persons. See the figure in step 2.	

No.	Procedure	Check Items/Remarks
2	 Move the main body to the desired installation location. Note: When moving the main body, hold it firmly from both sides with two persons. A moveable cart may be used. The main body weighs approx. 34 kg. 	
3	Peel off all the protective tapes securing the various parts. Remove the protective sheet of the platen glass. Check the covers for damage during shipping.	 Inside the feeder Cable
4	Connect the units of the machine with cables.	

No.	Procedure	Check Items/Remarks
5	Remove the screw for transportation. Note: If the power is turned ON without removing this screw, "Please wait" is kept displaying on the operation panel. Turn the power OFF, then remove the screw. When transporting DR-7080C, be sure to fix the mirror unit with the screw for transportation. Refer to the "SERVICE MODE" section for details.	Contraction of the second seco
6	 Attach labels as required. ① Document size label Attach a label to the front as well so that a person in a wheelchair can adjust document size position easily. Select the best one of four types of labels. ② Cleaning caution label (only 120 V model and 220-240 V models) Caution labels associated with glass staining in ADF mode. There are six kinds of labels. Select the one on which the language appropriate for the region is displayed. 	
7	Connect the power cord. In the case of the 100 V model, connect also the grounding cord.	

No.	Procedure	Check Items/Remarks		
8	Connect the computer to DR-7080C using an SCSI cable or a USB cable. If the computer is connected to DR-7080C using an SCSI cable, change the SCSI ID and terminator settings as necessary. If DR-7080C is connected to the end of the daisy chain, turn the terminator ON.	SCSI ID Terminator (N) 1 2 3 (N) 1 2 3 (N) 1 2 3 (N) (N) (N) (N) (N) (N) (N) (N)		
		SCSI IDSW1SW2SW30OFFOFFOFF1ONOFFOFF2OFFONOFF3ONONOFF4OFFOFFON5ONOFFON6OFFONON7ONONON		
9	For 220-240 V models, if a SCSI device is connected to DR-7080C, attach a ferrite core to the cable on the SCSI device side. Note: This is to satisfy radio interference requirements for 220-240 V models.	DR-7080C SCSI Device A SCSI Cable PC -> SCSI Device ->		
10	After turning DR-7080C ON, turn the computer ON. Note: Confirm that "Ready" is displayed on DR-7080C operation panel before the computer is turned ON.			
11	Install the driver and application software in the computer. Refer to the user manual for details.			
12	Check if DR-7080C operates normally. Refer to the user manual for details.			

III. STAMP UNIT INSTALLATION PROCEDURE

No.	Procedure	Check Items/Remarks
1	 Open the package, take out the contents, and check if there are any missing parts. ① Stamp solenoid ② Ink cartridge ③ Screw (BH, M3×6) ④ Installation procedure Note: The packed "Installation procedure" is a Japanese version for copiers. Follow the procedure instructions in this service manual for installation. 	
2	Open the feeder cover.	
3	Open the opening guide ① slightly, remove part A, open the guide widely and slide it, remove the opposite fitting part and take out the guide.	
4	Remove the 2 screws ① and remove the reversal guide ②. Note: A cable is connected to the back of the reversal guide.	

No.	Procedure	Check Items/Remarks
5	Install the solenoid ② with the screw ① supplied and connect the connector ③.	
6	Insert the cartridge ① into the end of the solenoid. Note: Push the cartridge until it clicks.	
7	Return the reversal guide and the opening guide to their original positions and close the feeder cover.	
8	Enter the service mode and enable "Feeder> OPTION>STAMP-SW".	
9	Set the appropriate paper on the feeder and check operation.	

IV. PERIODICALLY REPLACED PARTS

There are no parts that must be replaced periodically. However, there are consumable parts and consumables.

Reference: Differences between periodically replaced parts, consumable parts, and consumables.

- 1. Periodically replaced parts are the parts which are usually assigned as service parts and shall be replaced by service technicians. However, if the storage period is limited, parts are assigned as commercially available products.
- 2. Consumable parts are the parts which are assigned as service parts and shall be replaced (by users or service technicians) when becoming no good.
- 3 Consumables are the parts which are assigned as commercially available products and shall be replaced (usually by users) when becoming no good.

V. CONSUMABLE PARTS AND CONSUMABLES

Consumable parts and consumables are listed below.

Have a service technician perform replacements of all parts except "stamp cartridge".

No.	Part Name	Part No.	Q'ty	Replacement Cycle	Remark
1	Pickup roller	MA2-7046	1	400,000 sheets	Unique parts, Note 2
2	Feeding roller	MA2-7047	1	400,000 sheets	Unique parts, Note 2
3	Pre-separation base	MF1-4291	1	400,000 sheets	Unique parts, Note 2
4	Separation pad holder	MF1-4292	1	400,000 sheets	Unique parts, Note 2
5	Separation pad holder B	MF1-4293	1	400,000 sheets	Unique parts, Note 2
6	Dust-collecting tape A	MA2-7048	1	400,000 sheets	Unique parts, Note 2
7	Dust-collecting tape B	MA2-7049	1	400,000 sheets	Unique parts, Note 2
8	Dust-collecting tape C	MA2-7050	1	400,000 sheets	Unique parts, Note 2
9	Dust-collecting tape D	MA2-7051	2	400,000 sheets	Unique parts, Note 2
10	Dust-collecting tape E	MA2-7052	5	400,000 sheets	Unique parts, Note 2
11	No. 1 registration roller	FC5-2994	1	1,000,000 sheets	
12	No. 2 registration roller	FC5-2995	1	1,000,000 sheets	
13	Read roller 1	FC5-2997	1	2,000,000 sheets	
14	Read roller 2	FC5-2998	1	2,000,000 sheets	
15	Platen roller	FC5-3027	1	2,000,000 sheets	Unique parts
16	Reversal lower roller	FC5-3010	1	2,000,000 sheets	
17	Delivery reversal upper roller	FC5-2996	1	2,000,000 sheets	
18	Pickup clutch	FK2-0209	1	2,000,000 sheets	
19	Pressure solenoid	FK2-0210	1	2,000,000 sheets	
20	Scanning lamp	FK2-0224	1	2,000,000 sheets	500 hours lit
21	Stamp solenoid	Note 3	1	300,000 stamps	Option
22	Stamp ink cartridge	Note 4	1	7,000 stamps	Option

Table 4-501

- **Note 1:** The values on this list are approximations and may be changed according to empirical data.
- Note 2: For the parts No. 1 to 10 with replacement cycles of 400,000 documents, "Exchange Kit" are also available instead of service parts. Their product code is "9664A002AA".

- Note 3: The product name is "Stamp unit A1". The code for Japan is "9011A001BA", and the code for other regions is "9664A001AA". It has a stamp ink cartridge.
- Note 4: The product name is "Stamp ink cartridge B1". The code is "6776001AA".
VI. PERIODIC SERVICING

1. Periodic Servicing List

Table 4-601 gives a periodic servicing list. The maintenance intervals are replacement cycles of consumable parts. If paper dust or dirt attach to rollers or scrapers, black lines may appear on images. Therefore, clean rollers and scrapers carefully.

Note: Use only specified solvents/oils.

		U , e				
Unit	Location/Parts	Intervals				
name	Location/Parts	0.4 million	one million	two millions	Remarks	
Feeder	Pickup roller	•			If replacement is	
	Feeding roller	•			follows: wipe with cloth	
	Separation pad assembly (3 parts)	•			slightly moistened with water, then wipe dry.	
	Dust-collecting tape	•				
	No. 1 registration roller	\bigtriangleup	•		Wipe with cloth slightly	
	No. 2 registration roller	\bigtriangleup	•		then wipe dry.	
	Read roller 1	\bigtriangleup		•		
	Platen roller	\bigtriangleup		•		
	Read roller 2	\bigtriangleup		•		
	Reversal lower roller	\bigtriangleup		•		
	Delivery reversal lower roller	\bigtriangleup		•		
	Delivery reversal upper roller	\bigtriangleup				
	No. 1 registration roller follower	\bigtriangleup				
	No. 2 registration roller follower	\bigtriangleup				
	Read roller follower 1	\triangle				
	Platen roller follower 1	\bigtriangleup				
	Platen roller follower 2	\bigtriangleup				

 $[\triangle: Cleaning, ullet: Replace, \lapha: Lubricate, \Box : Adjust, \Oints: Check]$

Figure 4-601a

Unit	Looofice/Doute	Intervals			Demedia	
name	Location/Parts	0.4 million	one million	two millions	Remarks	
Feeder	Read roller follower 2	Δ			Wipe with cloth slightly	
	Reversal upper roller	Δ			then wipe dry.	
	Document pass parts of feed guide, etc.	Δ				
	Scraper of feed guide, etc.	\bigtriangleup				
	Black pressure board	Δ				
	White sheet of platen parts	Δ				
	Post-separation sensor	Δ			Clean the detection par	
	Read sensor	Δ			blower.	
	Delivery reversal sensor	Δ				
	Pickup clutch			•		
	Pressure solenoid			•		
	Feeder height				See the "Chapter 5 IV. FEEDER ADJUSTMENT" for details.	
Reader	Platen glass (Clean the back side as required.)	Δ			Wipe with cloth slightly moistened with water, then wipe dry.	
	ADF reading glass (Clean the back side as required.)	Δ			Apply silicon oil to the "ADF reading glass" as required. See the other section for details.	
	Scanning lamp			•		

Figure 4-601b

- **Note 1:** If stain is not removed, alcohol may be used.
- **Note 2:** If parts are very dirty, "customer maintenance" should be instructed.

2. Layout Plan

1) Rollers and sensors related



- ① Pickup roller
- ② Feeding roller
- ③ No. 1 registration roller follower
- ④ No. 1 registration roller
- (5) No. 2 registration roller follower
- 6 No. 2 registration roller
- ⑦ Read roller 1 follower
- ⑧ Read roller 1
- 9 Platen roller follower 1
- 1 Platen roller

- 1 Platen roller follower 2
- 1 Read roller 2
- ① Read roller 2 follower
- ⁽¹⁾ Delivery reversal lower roller
- ⁽¹⁵⁾ Delivery reversal upper roller
- 16 Reversal upper roller
- 1 Reversal lower roller
- (B) Separation pad assembly (3 parts)
- 19 Post-separation sensor
- ② Read sensor
- 2 Delivery reversal sensor

Figure 4-601

2) Feed guide related



- ① Pre-registration guide
- ② Opening guide
- ③ Reversal guide

- ④ Feed guide
- ⑤ Reversal flapper
- ⑥ Delivery guide



 Dust-collection tape, clutch, solenoid Dust-collection tape is located inside the feeder cover.



- ① Pickup clutch
- ② Lock solenoid
- ③ Dust-collecting tape (Total 10 sheets)



4) Black pressure board, platen glass, etc.



- ① Black pressure board
- ② White sheet
- ③ Platen glass
- ④ ADF reading glass

Figure 4-604

3. Silicon Oil Application

If the document does not move smoothly on the ADF reading glass, apply silicon oil to the ADF reading glass.

* Items to Prepare

• Silicone oil

(Tool number: FY9-6013-000)



Figure 4-605

Cleaning tissue

(Tool number: FC5-4430-000)



Figure 4-606

* Procedure

- 1) Wipe the ADF reading glass ① using cleaning tissue.
- **Note:**Here, do not use silicone oil on the cleaning tissue.



Figure 4-607

 Squeeze the bottle ① of silicone oil 2 to 3 times to moisten cleaning tissue ② with silicone oil.



Figure 4-608

- Apply the silicone oil on the reading glass with the cleaning tissue.
- 4) Dry wipe the reading glass with cleaning tissue (so as to even out the oil).

CHAPTER 5

TROUBLESHOOTING

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I. ERROR DISPLAY AND REMEDY

1. Feeder

If a document jam occurs, the document set display of the feeder flashes. In this case, remove the jammed document.

2. DR-7080C Operation Panel

When an error occurs in the DR-7080C, an error message is displayed in the operation panel display. Refer to Table 5-101.

Users are to implement actions for all error messages other than service calls. However, if a user implemented action does not handle the problem, a service technician is to service the DR-7080C.

No.	Display	Cause → Action
1	C o v e r O p e n 0 1 0 1	The feeder cover is open. \rightarrow Close the feeder cover.
2	C o v e r O p e n 0 2	The feeder is open. \rightarrow Close the feeder.
3	F e d i n g M i s s	 Pickup error → Check the document and try again. If the document does not go through the ADF, scan it using the FB.
4	Jam xxx	Jam → Handle the jam and remove the document. Note: "XXXX" indicates the type of jam. For details, refer to Table 5-102.
5	Send failed	Transmission error in job function \rightarrow Check the settings with a job registration tool and try again.
6	Detect Mix Doc.	 Different size documents have been detected. → After checking the front and back sides of the delivered document, set the different size documents mode to ON and perform the operation again.
7	E r r r E x x x x x x I	 An anomaly occurred inside the main unit (service call). → Reset the machine. If the error is still displayed, switch the power OFF. → A service technician should take measures. For details, refer to Table 5-103.
8	Waitt. It. It. It. Display does not change from above message to "Ready".	An anomaly occurred inside the main unit. \rightarrow Same action as the above service call.

Table 5-101

Code	Cause
JAM 0001	Document is not reached to post-separation sensor
JAM 0002	Document is stagnated in post-separation sensor
JAM 0003	Document is not reached to registration sensor
JAM 0004	Document is stagnated in registration sensor
JAM 0005	Document is not reached to read sensor
JAM 0006	Document is stagnated in read sensor
JAM 0007	Document is not reached to delivery reversal sensor
JAM 0008	Document is stagnated in delivery reversal sensor
JAM 0066	1st document is stagnated in post-separation sensor

Code	Cause
JAM 0067	1st document is not reached to
	registration sensor
JAM 0068	1st document is stagnated in
	registration sensor
JAM 0069	1st document is not reached to
	read sensor
JAM 0070	1st document is stagnated in
	read sensor
JAM 0071	1st document is not reached to
	delivery reversal sensor
JAM 0072	1st document is stagnated in
	delivery reversal sensor
JAM 0113	Timing anomaly
JAM 0115	Pressure sensor anomaly
JAM 0144	Feeder open
JAM 0146	Feeder cover open
JAM 0148	Initial stagnation
JAM 0149	Pickup error

Table 5-102

Code	Cause	Problem location
Error E2020001	Scanner HP sensor detects positioning forward error	Scanner motor, scanner HP sensor related
Error E2020002	Scanner HP sensor detects positioning backward error	
Error E2250001	Light intensity at power ON below reference level	Scanning lamp related
Error E2270001	24V port OFF at power ON	24 VDC power supply related
Error E2270002	24V port OFF at job start	
Error E2270003	24V port OFF at job end	
Error E2270004	24V port OFF during load driving	
Error E2480001	Error at EEPROM power ON	Reader controller PCB related
Error E2480002	Error during EEPROM write	
Error E2480003	Error during EEPROM read	
Error E4000001	Feeder communication check-sum error	Feeder and reader connec-
Error E4000002	Feeder communication status error	tion related,
Error E4000003	Feeder communication receive interrupt error	ADF UNVELFCB related
Error E4130001	Feeder pressure motor HP sensor open error	Pressure motor,
Error E4130002	Feeder pressure motor HP sensor close error	pressure HP sensor related
Error E7430000	Reader communication error	Reader and controller con- nection related
Error E3000000	Controller cooling fan error	Cooling fan related

Table 5-103

3. Computer

Error messages are displayed to the display connected to the computer. The content of these messages vary according to the software that is used.

The majority of error messages are related to user operation errors or document jams. Moreover, they may duplicate error messages displayed to the operation panel.

The user is to implement handling actions as directed in the error message. However, if the problem is not resolved as the result of user handling, it must be handled by a service technician.

Figure 5-101 shows the main error messages displayed when using "CapturePerfect 2.0."

Scanner Ei	rror 🔀
	Scanner cover is open.(-4429)
	OK

Scanner	Error 🔀
\triangle	No page was found in the feeder.(-4401)
	OK
o - 5	
Scanner Err	or X
$\underline{\mathbf{N}}$	Paper jammed in scanner; clear paper and continue.(-4426)

ÖK

Scanner Er	ror
	Can't locate device; check cable and power.(-4536)
	<u>[ОК]</u>



Figure 5-101

II. SERVICE MODE

1. Outline

The service mode of the DR-7080C can be executed by installing the service mode software on the computer for service. The service mode software is located in the setup disk provided with the DR-7080C.

The system conditions for the computer to be used are the same as those described in the user manual. The lower the CPU performance or memory capacity, the longer the processing time, but the service mode can still be used.

Figure 5-201 shows the service screen.

À QPServiceTool(STI USB)	X
Vender:CANON Product:DR-7080C	ver.1.12
Copier	Co <u>n</u> troller Firm Load
<u>F</u> eeder	<u>R</u> eader Firm Load
Co <u>u</u> nter Set	Total Count : 107859 ADF Total Count :102301 Jam Count :8
<u>P</u> anel Check	
MAIN 1.12 SCANNER 07.01 ADF 01.00	Mirror



The service screen displays the buttons for selecting the various modes. Each service mode is started from this screen.

- 1) Copier Service mode related to reader
- Feeder Service mode related to feeder
- Counter Set Counter change
- Panel Check
 Operation panel check
- 5) Controller Firm Load Controller firmware change
- Reader Firm Load
 Reader and feeder firmware change
- 7) Mirror To move the mirror unit to a fixed position for transport.

In addition to the above buttons, counters and the version information are also displayed.

2. Installation Procedure

The service mode software installation procedure is described below. Do not install the service mode software on the user's computer.

- 1) Power ON the computer for service and start up the OS (Windows).
- 2) Set the setup disk supplied with the DR-7080C.
- Copy the "\Driver\Tools" folder in the setup disk to one of the drives of the computer for service.
- Note: To check the operation of the DR-7080C with the service computer, the required software must be installed. For how to install the software provided with the DR-7080C, refer to the user manual.

However, for the specifications, such as the maximum number of documents that can be scanned at one time, see the computer system conditions described in the user manual.

3. Starting Up and Exiting Service Mode

The procedure for starting up the service mode is described below.

- 1) Connect the computer with the DR-7080C using a SCSI cable or a USB cable.
- 2) After powering ON the DR-7080C, power ON the computer.
- 3) Check if the operation panel of the DR-7080C has changed to "Ready".
- Open the installed "Tools" folder and start up the "QPTool.exe" file. (See Figure 5-202.)
- 5) The password screen is displayed, so after inputting "qp", select [OK]. (See Figure 5-203.)
- 6) The service screen is displayed.

To exit the service mode, select [OK] in the service screen.





PASSWORD			×
<u>P</u> ASSWORD :	** K	<u>C</u> ancel]

Figure 5-203

- Note:After the DR-7080C is connected to the computer and the computer is powered ON for the first time, a screen requesting installation of "New Hardware" or a "Device Driver" is displayed. In this case, perform the following procedure.
 - a) If only the service mode software has been installed, first click [Cancel] to close the screen.
 - b) If the driver provided with the DR-7080C has been installed, perform the actions indicated in the user manual.
- Note:Before starting the service mode file: "QPTool.exe", quit all scanner applications, such as "CapturePerfect". Also, start QPTool.exe only after checking that the operation panel of the DR-7080C displays "Ready". If scanning is attempted before "Ready" or while "Stand-by Mode" is displayed, software hangup will occur.

- Note: To execute the service mode with the user's computer, start up "\Driver\Tools\ QPTool.exe" on the setup disk supplied with the DR-7080C. Do not copy this program to the user's computer. Do not let the user know the folder name and password to be used.
- Note: The version screen is displayed by right-clicking the title bar of the service screen and selecting "About Service Tool". Alternatively, the version can also be displayed in "QPTool.exe" properties.

About Servi	iceTool	x
3	Service Tool version : 1.0.2004.115 Copyright CANON ELECTRONICS INC.	<u> </u>



4. Service Mode List

There is a large number of service mode items related to the reader and feeder, as listed below. For more details about the contents, operation method, etc., refer to the relevant sections.

Configuration/Name		ration/Name	Description			
Сс	Copier			Service mode related to reader		
	Display		у	Control display mode		
	CCD		D	Display of measurement values related to CCD		
	TARGET-B		TARGET-B	BLUE shading target value (4-digit display in decimal)		
			TARGET-G	GREEN shading target value (4-digit display in decimal)		
			TARGET-R	RED shading target value (4-digit display in decimal)		
			GAIN-OB	Gain level value of blue odd bits of CCD (for color)		
	GAIN-OG		GAIN-OG	Gain level value of green odd bits of CCD (for color)		
			GAIN-OR	Gain level value of red odd bits of CCD (for color)		
		GAIN-EB		Gain level value of blue even bits of CCD (for color)		
			GAIN-EG	Gain level value of green even bits of CCD (for color)		
			GAIN-ER	Gain level value of red even bits of CCD (for color)		
	I/C)		PCB I/O port display mode		
		R-0	CON	I/O port of reader controller PCB		
			Port1	Port 1, 8 bits		
			Port2	Port 2, 8 bits		
			Port3	Port 3, 8 bits		
			Port4	Port 4, 8 bits		
			Port5	Port 5, 8 bits		
			Port6	Port 6, 8 bits		
			Port7	Port 7, 8 bits		
			Port8	Port 8, 8 bits		
			Port9	Port 9, 8 bits		
		FE	EDER	I/O port of ADF driver PCB		
			Port1	Port 1, 8 bits		
			Port2	Port 2, 8 bits		
			Port3	Port 3, 8 bits		
			Port4	Port 4, 8 bits		
			Port5	Port 5, 8 bits		
			Port6	Port 6, 8 bits		
			Port7	Port 7, 8 bits		
			Port8	Port 8, 8 bits		
			Port9	Port 9, 8 bits		
			Port10	Port 10, 8 bits		
			Port11	Port 11, 8 bits		

Table 5-201a

Configuration/Name	Description		
Adjust	Adjustment mode (Changes are enabled by power RESET of machine.)		
ADJ-XY	Image scanning start position adjustment		
ADJ-X	Image scanning start position adjustment (X = sub-scan direction) during the FB mode. Adjustment range: 1 to 100 (Default: 20), 0.1 mm displacement when value is changed by 1.		
ADJ-Y	Image scanning start position adjustment (Y = main-scan direction) during the FB mode. Adjustment range: 47 to 131 (Default: 90), 0.1 mm displacement when value is changed by 1.		
ADJ-S	Shading position manual adjustment Note: No adjustment in market required. Used during manual adjustment when white lines or black lines caused by dust on the white plate occur, regardless of automatic adjustment. Adjustment range: 20 to 200 (Default: 50), 0.1 mm displacement when value is changed by 1.		
ADJ-Y-DF	Image scanning start position adjustment (Y = main-scan direction) during the ADF mode. Adjustment range: 21 to 106 (Default: 53), 0.1 mm displacement when value is changed by 1.		
STRD-POS	Image scanning start position adjustment (X = sub-scan direction) during the ADF mode. Adjustment range: 1 to 200 (Default: 100), 0.1 mm displacement when value is changed by 1.		
CCD	CCD, shading related adjustment		
W-PLT-X	X signal data of white plate. Perform setting again after replacing platen glass, reader controller PCB. Setting range: 1 to 9999 (Default: 8271)		
W-PLT-Y	Y signal data of white plate. Perform setting again after replacing platen glass, reader controller PCB. Setting range: 1 to 9999 (Default: 8735)		
W-PLT-Z	Z signal data of white plate. Perform setting again after replacing platen glass, reader controller PCB. Setting range: 1 to 9999 (Default: 9418)		
CCDU-RG	Color shift correction value in sub-scan direction between CCD unit dependent RG. Also set when replacing the CCD unit, the reader controller PCB. Setting range: -9 to 9 (Default: 0)		
CCDU-GB	Color shift correction value in sub-scan direction between CCD unit dependent GB. Also set when replacing the CCD unit, the reader controller PCB. Setting range: -9 to 9 (Default: 0)		

Table 5-201b

Configuration/Name	Description		
FCCDU-RG	Color shift correction value in sub-scan direction between CCD unit dependent RG at plant shipment. Perform setting again after replacing reader controller PCB. Note: No adjustment in market required. Adjustment range: -9 to 9 (Default: 0)		
FCCDU-GB	Color shift correction value in sub-scan direction between CCD unit dependent GB at plant shipment. Perform setting again after replacing reader controller PCB. Note: No adjustment in market required. Adjustment range: -9 to 9 (Default: 0)		
50-RG	Color shift (R-G) offset value display during FB mode/50% scanning Setting range: -256 to 256 (Default: 0)		
50-GB	Color shift (G-B) offset value display during FB mode/50% scanning Setting range: -256 to 256 (Default: 0)		
50DF-RG	Color shift (R-G) offset value display during ADF mode/50% scanning Setting range: -256 to 256 (Default: 0)		
50DF-GB	Color shift (G-B) offset value display during ADF mode/50% scanning Setting range: -256 to 256 (Default: 0)		
100-RG	Color shift (R-G) offset value display during FB mode/100% scanning Setting range: -256 to 256 (Default: 0)		
100-GB	Color shift (G-B) offset value display during FB mode/100% scanning Setting range: -256 to 256 (Default: 0)		
100DF-RG	Color shift (R-G) offset value display during ADF mode/100% scanning Setting range: -256 to 256 (Default: 0)		
100DF-GB	Color shift (G-B) offset value display during ADF mode/100% scanning Setting range: -256 to 256 (Default: 0)		
DFTAR-R	Red shading target value display during the ADF mode Setting range: 1 to 2047 (Default: 1159)		
DFTAR-G	Green shading target value display during the ADF mode Setting range: 1 to 2047 (Default: 1189)		
DFTAR-B	Blue shading target value display during the ADF mode Setting range: 1 to 2047 (Default: 1209)		

Table 5-201c

Configuration/Name	Description		
PASCAL	Automatic gradation correction control adjustment		
OFST-P-Y	Setting of high-density parts and Y target value during automatic gradation correction. Perform setting again after replacing reader controller PCB. Note: Adjustments other than above resetting not required in market. Adjustment range: -128 to 128 (Default: 0)		
OFST-P-M	Setting of high-density parts and M target value during automatic gradation correction. Perform setting again after replacing reader controller PCB. Note: Adjustments other than above resetting not required in market. Adjustment range: -128 to 128 (Default: 0)		
OFST-P-C	Setting of high-density parts and C target value during automatic gradation correction. Perform setting again after replacing reader controller PCB. Note: Adjustments other than above resetting not required in market. Adjustment range: -128 to 128 (Default: 0)		
OFST-P-K	Setting of high-density parts and K target value during automatic gradation correction. Perform setting again after replacing reader controller PCB. Note: Adjustments other than above resetting not required in market. Adjustment range: -128 to 128 (Default: 0)		
Function	Operation/inspection mode		
CCD	CCD/shading related automatic adjustment		
DF-WLVL1	White level adjustment during the FB mode. Scan white paper on the platen glass and adjust white level. Execute after replacing reader controller PCB.		
DF-WLVL2	White level adjustment during the ADF mode Scan white paper set on the document pickup tray and adjust white level. Execute after replacing reader controller PCB.		
CLEAR	Clears RAM/OPTION		
R-CON	Clears RAM of reader controller PCB. Execute after replacing reader controller PCB.		
OPTION	Clears option backup data. Note: This function need not be executed for DR-7080C.		
MISC-R	Service mode related to other readers		
SCANLAMP	Scanning lamp lighting check When this function is executed, the scanning lamp lights for 3 seconds.		

Table 5-201d

Configuration/Name	Description		
Option	Specification setting mode (Changes are enabled by power RESET of machine.)		
BODY	Settings related to selection of specifications related to machine		
SENS-CNF	Selection of location of document detection sensor Note: No change required in DR-7080C. AB system/Inch system (Default: AB system)		
MODELSZ2	Global support through document detection during FB mode (AB/INCH mixed detection) Note: No change required in DR-7080C. None/Detect (Default: None)		
SZDT-SW	Switching from CCD detection to photo size detection during document size detection in the FB mode. Note: No change required in DR-7080C. None/Detect (Default: None)		
SPECK-SW	Dust detection timing switch Switch the method of setting value for detecting white plate dust at each job, in order to prevent image degradation (lines) due to dust that adheres to the white plate following startup. Note: No change required in DR-7080C. None/Detect (Default: None)		
DFDST-L1	 Adjustment of dust detection level when using ADF (sheet-to-sheet correction) 0: Switches OFF this mode. Note: No adjustment in market required. Setting range: 0 to 255 (Default: 0) 		
DFDST-L2	Adjustment of dust detection level when using ADF (detection after job) 0: Switches OFF this mode. Note: No adjustment in market required. Setting range: 0 to 255 (Default: 0)		
USER	Selection of main unit related specifications related to the user mode		
SIZE-DET	Selects the document size detection function during the FB mode. Note: No execution required in DR-7080C. None/Detect (Default: None)		

Table 5-201e

С	Configuration/Name		Description		
Fe	eder		Service mode related to feeder		
	DISPL	.AY	Control display mode		
		TRY-WIDE	Amount of document guide opening (Unit: 0.1 mm) Displays the distance between slides detecting the document width of the document pickup tray (distance between 2 points)		
		SPSN-LMN	Post-separation sensor light intensity Displays the light emission voltage of the post-separation sensor.		
		SPSN-RCV	Post-separation sensor light receiving intensity Displays the light receiving voltage of the post-separation sensor.		
		RDSN-LMN	Read sensor light emission intensity Displays the light emission voltage for the read sensor.		
		RDSN-RCV	Read sensor light receiving intensity Displays the light receiving intensity of the read sensor.		
		DRSN-LMN	Delivery reversal sensor light emission intensity Displays the light emission voltage of the delivery reversal sensor.		
		DRSN- RCV	Delivery reversal sensor light reception intensity Displays the light reception voltage of the delivery reversal sensor.		
	ADJU	ST	Adjustment mode		
		DOCST	Document stop position adjustment during the ADF mode (leading edge registration adjustment) The image reading timing is delayed when a larger value is set. Perform setting again after replacing reader controller PCB. Note: Adjustments other than above resetting not required in market. Adjustment range: -50 to 50 (Unit: 0.1 mm)		
		LA-SPEED	Document feed speed adjustment during the ADF mode (magnification adjustment) The speed slows down when a larger value is set. (The image becomes smaller.) Perform setting again after replacing reader controller PCB. Note: Adjustments other than above resetting not required in market. Adjustment range: -30 to 30 (Unit: 0.1%)		
	FUNC	TION	Various automatic adjustments, operation check, cleaning mode		
		SENS-INT	Adjustment of sensitivity of various feeder sensors (post-separation, read, delivery reversal sensors) Execute after replacing various sensors, and reader controller PCB.		
		MTR-ON	Motor operation check Operates the selected motor. Motor selection is done with [MTR-CHK].		
		MTR-CHK	Motor selection 0: Pickup motor 1: Feed motor 2: Delivery reversal motor 3: Pressure motor		
		SL-ON	Solenoid operation check Operates the selected solenoid. Solenoid selection is done with [SL-CHK].		
		SL-CHK	Solenoid selection 0: Pressure solenoid 1: Stamp solenoid		

Table 5-201f

С	onfiguration/Name	Description		
	FEED-ON	Feed operation check		
		Executes the selected feed mode.		
		Feed mode selection is done with [FEED-CHK].		
	FEED-CHK	Feed mode selection		
		0: Simplex feed		
		1: Duplex feed		
		2: Simplex feed with stamp		
		3: Duplex feed with stamp		
	FAN-ON	Fan operation check		
		Operates the selected fan.		
	FAN-CHK	0: Cooling fan of feeder		
		Clutch operation check		
	CL-ON	Operates the selected clutch		
		Clutch selection is done with [CL-CHK].		
	CL-CHK	Clutch selection		
		0: Pickup clutch		
	TRY-A4	Automatic adjustment of paper width detection reference point 1 in		
		document pickup tray (A4)		
		Records a value when A4 paper is set in document pickup tray. Then,		
		following execution of this item, execute TRY-A5R.		
		Execute after replacing reader controller PCB.		
	TRY-A5R	Automatic adjustment of paper width detection reference point 2 in		
		document pickup tray (A5R)		
		Records a value when ASR paper is set in document pickup tray.		
		Execute after replacing reader controller PCB.		
	IRY-LIR	Automatic adjustment of paper width detection reference point 1 in document nickup tray (LTP)		
		Records a value when LTR paper is set in document pickup trav		
		Then, following execution of this item, execute TRY-LTRR.		
		Execute after replacing reader controller PCB.		
	TRY-I TRR	Automatic adjustment of paper width detection reference point 2 in		
		document pickup tray (LTRR)		
		Records a value when LTRR paper is set in document pickup tray.		
		Execute after replacing reader controller PCB.		
	ROLL-CLN	Roller cleaning mode		
		This mode automatically drives the drive rollers with motors.		
		When cleaning the rollers, use this mode instead of turning the rollers		
		by hand. However, the pickup, feed, and reversal rollers are not		
		Creating setting using feeder function		
	LO-DBL	The OFF mode is provided to support users who use a document not		
		suitable for the high-speed duplex mode.		
		ON/OFF (Default: ON)		
	STAMP-SW	Stamp option installation setting		
		Set when stamp solenoid is attached as option.		
		None/Stamp (Default: None)		

Table 5-201g

5. Copier

1) Screen



Copier						×
Display 1/0	Adjust Functio	n Option				
<u>360</u> -						
W-PLT-X	8250	1 - 9999	50DF-RG	0	-256 - 256	
W-PLT-Y	8687	1 - 9999	50DF-GB	-40	-256 - 256	
W-PLT-Z	9364	1 - 9999	100-RG	71	-256 - 256	
CCDU-RG	0	-9 - 9	100-GB	86	-256 - 256	
CCDU-GB	0	-9 - 9	100DF-RG	-4	-256 - 256	
FCCDU-RG	0	-9 - 9	100DF-GB	-68	-256 - 256	
FCCDU-GB	0	-9 - 9	DFTAR-R	1131	1 - 2047	
50-RG	60	-256 - 256	DFTAR-G	1158	1 - 2047	
50-GB	49	-256 - 256	DFTAR-B	1218	1 - 2047	
				Send	1	
				OK	Cancel	

Figure 5-205a



) Adjust Function Option

-128 - -128

-128 - -128

-128 - -128

×

R-CON	FEEDER	PASMAL
Port01 : 0000000000000 Port02 : 000000000011 Port03 : 00000000011011 Port04 : 00000000001 Port05 : 00000000111100 Port05 : 0000000000111100 Port07 : 0000000000000 Port08 : 00000000011100 Port09 : 00000000111000	D Port01 : 000000000001100 D Port02 : 00000000001111 1 Port03 : 0000000011111001 1 Port04 : 000000011001111 1 Port05 : 000000011001101 1 Port05 : 0000000110011001 1 Port07 : 00000001000100000 0 Port07 : 0000000100100100 0 Port08 : 000000010111100 0 Port08 : 00000000101101001 Port10 : 000000001101001 Port11 : 000000001100110	OFST-P- OFST-P- OFST-P- OFST-P-





v1



Figure 5-205e

OK

Cancel

X

-128 - -128 <u>S</u>end

DF-WLVL1 :	START			
DF-WLVL2 :	START]		
CLEAR				
R-CON	CLEAR			
OPTION	CLEAR			
MISC-R-		STADT	1	
BUANLAMP :		START		

Figure 5-205f

ADJ-XY -ADJ-X ADJ-Y

ADJ-S

92

Copier	×
Display I/O Adjust Function Option	
BODY	
SENS-CNF C AB C INCH DFDST-L1 0 0 - 255	
MODELSZ2 Detect DFDST-L2 0 0 - 255	
SZDT-SW Detect	
SPECK-SW Detect Send	
USER	
SIZE-DET Detect Send	
OK Cano	el

Figure 5-205g

2) Copier>I/O

This operation indicates the I/O port statuses of the reader controller PCB and ADF driver PCB.

Basically, this mode is for factory/design, but since the sensor operation status, etc., of the ADF driver PCB marked [FEEDER] is known, these contents are indicated.

Port01 : 000000000000000000 Port02 : 000000000000000000 Port03 : 0000000000000000000000000000000000	Port01 : 000000000001100 Port02 : 000000000001111 Port03 : 000000011111001 Port04 : 000000011111001 Port06 : 000000011000111 Port07 : 00000001000000 Port08 : 000000011001000 Port08 : 00000001101100 Port08 : 00000001101100 Port09 : 00000001101100 Port010 : 00000001101001 Port10 : 00000000100100 Port11 : 00000000110010
---	--

Figure 5-206



Port	Bit	Name	Remarks
P1	0	Read sensor	0: Document supplied
	1	Registration senor	0: Document supplied
	2	Delivery reversal sensor	0: Document supplied
	3	ADF opening sensor	0: Opened
	4	Unused	
	5	Unused	
	6	Unused	
	7	Unused	
P2	0	Delivery reversal motor	
	1	Delivery reversel meter	
	I	current 2	
	2	Pressure motor current setting 1	
	3	Pressure motor current setting 2	
	4	Stamp solenoid drive	1:ON
	5	Clutch drive	1:ON
	6	Document detection LED	1:ON
	7	Cooling fan drive	1:ON
P3	0	Pickup motor current cut	
	1	Read motor current cut	
	2	Pressure motor current setting	
	3	Read motor mode setting	
	4	Read motor current setting 1	
	5	Read motor current setting 2	
	6	Pickup motor current setting 1	
	7	Pickup motor current setting 2	

Port	Bit	Name	Remarks
P4	0	Feeder cover sensor	0: Opened
	1	Unused	
	2	Unused	
	3	Unused	
	4	Unused	
	5	Unused	
	6	Unused	
	7	Stamp	1: Supplied
P5	0	Unused	
	1	Pressure HP sensor	1: Released
	2	Delivery reversal sensor	0: Document supplied
	3	Post-separation sensor	0: Document supplied
	4	LGL sensor	1: Document supplied
	5	A4R/LTRR sensor	1:AB system
	6	Unused	
	7	Document set sensor	0: Document supplied
P6	0-7	For design	
P7	0-7	For design	
P8	0-7	For design	
P9	0-7	For design	
P10	0-7	For design	
P11	0-7	For design	

Table 5-202

3) Copier>Adjust>ADJ-XY

This mode adjusts the image read start position. The DR-7080C having been adjusted at factory, it can basically be used as is in the market, but if the reader controller PCB is replaced, the DR-7080C must be reset to the factory setting values. Moreover, this adjustment is used if for some reason, such as following disassembly and assembly, read images have defects, or if fine adjustments are required.

However, keep the value of "ADJ-S: Manual adjustment of shading position" the same as the factory setting value and do not adjust it in the market.

Copier		×
Display I/O Adjust Funct	tion Option	
ADJ-XY		
ADJ-X 22	01 - 100	
ADJ-S 50	47 - 131 20 - 200	
ADJ-Y-DF 87	21 - 106	
STRD-POS 102	01 - 200 <u>S</u> end	
		OK Cancel

Figure 5-207

- ADJ-X: Adjustment of sub-scan direction start position in FB mode (X direction)
- ADJ-Y: Adjustment of main scan direction start position in FB mode (Y direction)
- ADJ-Y-DF: Adjustment of main scan direction start position in ADF mode (Y direction)
- STRD-POS: Adjustment of sub-scan direction start position in ADF mode (X direction)

- Operation Procedure
 - a) Change the value according to the image.

Changing the value by 1 results in movement of 0.1 mm.

- b) Click the [Send] button.
- c) When transmission of the input data has been completed, the [Success] screen is displayed. Click the [OK] button.

Success 🗶
Success
<u> </u>

Figure 5-208

- d) End the service mode.
- e) Execute power supply reset. If power supply reset is not executed, some items will not be enabled.
- f) Check the image after changes have been made.

Direction in FB mode
 Document set status
 Read image
 Left rear of platen glass = origin





Figure 5-209

When the [ADJ-X] value is reduced, the read start position in the X direction enters the minus side, and when the [ADJ-X] value is increased, it enters the plus side.

In the example shown below, the right side of the read image was cut off, so the [ADJ-X] value was reduced to improve the image.



Reduce [ADJ-X] value



ABC		



When the [ADJ-Y] value is reduced, the read start position in the Y direction enters the minus side, and when the [ADJ-Y] value is increased, it enters the plus side.

In the example shown below, the top side of the read image was cut off, so the [ADJ-Y] value was reduced to improve the image.









Figure 5-212

When the [STRD-POS] value is reduced, the read start position in the X direction enters the plus side, and then the [STRD-POS] value is increased, it enters the minus side. In the example shown below, the right side of the read image was cut off, so the [STRD-POS] value was reduced to improve the image.



Reduce [STRD-POS] value

ABC



When the [ADJ-Y-DF] value is reduced, the read start position in the Y direction enters the plus side, and when the [ADJ-Y-DF] value is increased, it enters the minus side. In the example shown below, the top side of the read image was cut off, so the [ADJ-Y-DF] value was increased to improve the image.

	۱ ا	
ABC	Increase [ADJ-Y-DF] value	AB



4) Copier>Adjust>CCD

This mode adjusts the CCD and shading-related data values. However, except for the [DFTAR-R], [DFTAR-G], and [DFTAR-B] values, all the values should remain the factory setting values, and if related parts are replaced in the market, the values should be adjusted again to the factory setting values. For details, refer to "AFTER REPLACING PARTS".

Note:The results of executing [Copier> Function>CCD] are displayed for the [DFTAR-R], [DFTAR-G], and [DFTAR-B] values.

If image anomalies occur for these values, set the factory setting values. For details, refer to [Copier>Function> CCD].

Copier					×
Display I/O	Adjust Functio	n Option			
30D -					
W-PLT-X	8250	1 - 9999	50DF-RG	0	-256 - 256
W-PLT-Y	8687	1 - 9999	50DF-GB	-40	-256 - 256
W-PLT-Z	9364	1 - 9999	100-RG	71	-256 - 256
CCDU-RG	0	-9 - 9	100-GB	86	-256 - 256
CCDU-GB	0	-9 - 9	100DF-RG	-4	-256 - 256
FCCDU-RG	0	-9 - 9	100DF-GB	-68	-256 - 256
FCCDU-GB	0	-9 - 9	DFTAR-R	1131	1 - 2047
50-RG	60	-256 - 256	DFTAR-G	1158	1 - 2047
50-GB	49	-256 - 256	DFTAR-B	1218	1 - 2047
				Send	- II
				OK	Cancel

Figure 5-215

- Operation Procedure
 - a) Input the factory setting value.
 - b) Click the [Send] button.
 - c) When transmission of the input data has been completed, the [Success] screen is displayed. Click the [OK] button.

Success	×
Success	
<u>OK</u>	

Figure 5-216

- d) End the service mode.
- e) Execute power supply reset.
 If power supply reset is not executed, some items will not be enabled.
- f) Check the image after changes have been made.
- 5) Copier>Adjust>PASCAL

This mode adjusts the data values related to automatic gradation correction. However, leave all the values at their factory setting, and if the reader controller PCB is replaced in the market, set the values back to the factory setting values. For details, refer to "AFTER REPLACING PARTS".

The operation procedure is the same as [Copier>Adjust>CCD].

6) Copier>Function>CCD

This mode automatically adjusts the CCD's white level.

Execute this mode after replacing the reader controller PCB.

Both [DF-WLVL1] and [DF-WLVL2] must be executed.

Copier		×
CCD CCD DF-WLVL1: DF-WLVL2: START		
CLEAR R-CON OPTION CLEAR		
MISO-R SCANLAMP: START		
	ОК	Cancel



- Operation Procedure
 - a) Clean the platen glass and the rollers.
 - b) Set a blank A4 or LTR sized sheet of copy paper on the platen glass and click the [START] button of [DF-WLVL1].

Note: Execute [DF-WLVL1] first.

 c) Scanning is automatically performed.
 When completed, the [Success] screen is displayed, so click the [OK] button.

Success	×
Success	
COK	

- d) Set the same copy paper in the document pickup tray and click the [START] button of [DF-WLVL2].
- e) Duplex scanning is automatically executed. When completed, the [Success] screen is displayed. Click the [OK] button.
- f) End the service mode and check the image.

By executing this mode, the target value for white level is calculated at the actual read position taking into consideration the transparency of the glass. The calculated value is displayed in [DFTAR-R], [DFTAR-G], and [DFTAR-B] of [Copier>Adjust>CCD].

If the copy paper that is used is soiled, anomalies such as streaks and color irregularities may occur in the image after this mode is executed. In this case, after cleaning the DR-7080C, execute this mode again using clean copy paper. If the problem persists, input the factory setting values in [DFTAR-R], [DFTAR-G], and [DFTAR-B].

The standard white plate data that serves as the reference for white level adjustment is measured for every platen glass and is input to [W-PLT-X], [W-PLT-Y], and [W-PLT-Z] of [Copier>Adjust>CCD]. This value is described on the platen glass and service label.

Figure 5-218

7) Copier>Function>CLEAR

[R-CON] performs RAM clear for the reader controller PCB. Execute this mode in the market after replacing the reader controller PCB. Since related items need to be reset after this mode is executed, be careful not to perform this mode by mistake. For details, refer to "AFTER REPLACING PARTS".

[OPTION] performs option-related data clear. However, this mode need not be performed for the DR-7080C.

- Operation Procedure
 - a) Click the [CLEAR] button.
 - b) The [Confirm] screen is displayed, so click the [Yes] button.

confirm	×
Are you sure ?	
<u>Y</u> es	<u>N</u> o

Figure 5-219

 c) When RAM clear is completed, the [Success] screen is displayed. Click the [OK] button.

Success 🔀
Success
OK
Figure 5-220

- d) End the service mode.
- e) Execute power supply reset.
- f) Enter the service mode again and set again related items.

8) Copier>Function>MISC-R

[SCANLAMP] lights the scanning lamp. The scanning lamp lights approx. 3 seconds after [SCANLAMP] is executed. [SCAN LAMP] is not used only to check lighting, but also during feeder height adjustment.

- Operation Procedure
 - a) Click the [START] button. The lamp lights.
 - b) While the lamp is lit, the [Wait] screen is displayed.

Wai	it	
	Wait	
	4	

Figure 5-221

 c) The lamp goes out after approx. 3 seconds, and the [Success] screen is displayed. Click the [OK] button.

Success 💌	:
Success	
OK	

Figure 5-222

d) End the service mode.

6. Feeder

1) Operation screen

Feeder		×
DISPLAY ADJUST FUNCTION	ON OPTION	
TRY-WIDE :2996	RDSN-LMN :0	
SPSN-LMN :82	RDSN-RCV:0	
SPSN-RCV :192	DRSN-LMN :1	
	DRSN-RCV :0	
	Refresh	
	<u> </u>	
	OK Cancel	



Feeder			x	
DISPLAY	ADJUST	FUNCTION OP	TION	l
				l
DC	OCST	20	-50 - 50	
LA	-SPEED	11	-30 - 30	
			SEND	
				l
			OK Cancel	



Feeder	×	(
DISPLAY ADJU	T FUNCTION OPTION	1
SENS-INT	START CL-ON START ROLL-CLN START	
MTR-ON	START TRY-A4 START	
SL-ON	START TRY-A5R START	
FEED-ON	START TRY-LTR START	
FAN-ON	START TRY-LTRR START	
MTR-CHK	0 - 3 FEED-CHK 0 - 3	
SL-CHK	0 0 - 1 CL-CHK 0 0 - 0	
FAN-CHK	0 - 0 SEND	
		1
	OK Cancel	1

 Feeder
 X

 DISPLAY | ADJUST | FUNCTION OPTION |

 LS-DBL

 High Speed Duplex Mode : • ON • OFF

 STAMP-SW

 Stamp

 Stamp

 OK



Figure 5-223c

2) Feeder>DISPLAY

This mode displays the document guide and sensors (post-separation, read, delivery reversal) status. Each status is displayed when [Feeder] is selected. Also, each status is displayed when the [Refresh] button is clicked. When the [Refresh] button is clicked after the amount of opening of the document guide is changed or the relevant sensor detection status is changed, that change can be checked with data.

Feeder		×
DISPLAY ADJUST FUNCT	ION OPTION	
TRY-WIDE :2996	RDSN-LMN :0	
SPSN-LMN :82	RDSN-RCV :0	
SPSN-RCV :192	DRSN-LMN :1	
	DRSN-RCV :0	
	Refresh	
	OK OK	 Dancel

Figure 5-224

- TRY-WIDE: Document guide opening amount (Unit: 0.1 mm)
- SPSN-LMN: Post-separation sensor lightemission voltage
- SPSN-RCV: Post-separation sensor lightreception voltage
- RDSN-LMN: Read sensor light-emission voltage
- RDSN-RCV: Read sensor light-reception voltage
- DRSN-LMN: Delivery reversal sensor light-emission voltage
- DRSN-RCV: Delivery reversal sensor light-reception voltage

3) Feeder>ADJUST

This mode performs adjustments related to document feeding. The DR-7080C having been adjusted at factory, it can basically be used as is in the market, but if the reader controller PCB is replaced, the DR-7080C must be reset to the factory setting values.

Feeder	×
DISPLAY ADJUST FUNCTION OF	NOIT
DOCST	-50 - 50
LA-SPEED 11	-30 - 30
	SEND
	OK Cancel

Figure 5-225

- DOCST: Adjustment of document stop position in ADF mode (leading edge registration adjustment)
- LA-SPEED: Adjustment of document feed speed in ADF mode (magnification adjustment)

- Operation Procedure
 - a) Input the value.
 - b) Click the [Send] button.
 - c) When transmission of the input data has been completed, the [Success] screen is displayed. Click the [OK] button.

Success X	
Success	
<u>OK</u>	

Figure 5-226

- d) End the service mode.
- 4) Feeder>FUNCTION

This mode automatically adjusts the document guide and sensors (post-separation, read, delivery reversal), checks the operation of the motor, etc., and executes the roller cleaning mode. For the respective details, refer to the relevant sections.

Feeder	x
DISPLAY ADJUS	T FUNCTION OPTION
SENS-INT	START CL-ON START ROLL-CLN START
MTR-ON	START TRY-A4 START
SL-ON	START TRY-A5R START
FEED-ON	START TRY-LTR START
FAN-ON	START TRY-LTRR START
MTR-CHK	0 0 - 3 FEED-CHK 0 0 - 3
SL-CHK	0 0 - 1 CL-CHK 0 0 - 0
FAN-CHK	0 0 - 0 SEND
	OK Cancel

Figure 5-227

5) Feeder>FUNCTION>SENS-INT

This mode adjusts the sensitivity of sensors (post-separation, read, delivery reversal). Execute this mode after replacing sensors and the reader controller PCB.

- Operation Procedure
 - a) When the [START] button is clicked, the mode is automatically executed.

Note:Be sure to close the feeder cover.

 b) When execution of the mode is completed, the [Success] screen is displayed. Click the [OK] button.

Success	×
Success	
<u> </u>	

Figure 5-228

c) End the service mode.

6) Feeder>FUNCTION>MTR-ON

How to check the various operations, including those of the motor and other driving parts, is explained here.

The following table lists the mode names and the targets they cover.

No.	Mode Name	Target
1	MTR-ON MTR-CHK	0: Pickup motor 1: Feed motor 2: Delivery reversal motor 3: Pressure motor
2	SL-ON SL-CHK	0: Pressure solenoid 1: Stamp solenoid
3	FEED-ON FEED-CHK	0: Simplex feed 1: Duplex feed 2. Simplex feed, stamp 3. Duplex feed, stamp
4	FAN-ON FAN-CHK	0: Cooling fan of feeder
5	CL-ON CL-CHK	0: Pickup clutch

Table 5-203

Each mode is used by setting [ON] and [CHK] for that mode.

The motor operation procedures are indicated below. Refer to these procedures for the solenoid, fan, and clutch operation procedures.

- Motor Operation Procedure
 - a) Input the target number in [MTR-CHK] and then click the [SEND] button.
 - b) When transmission of the input data has been completed, the [Success] screen is displayed. Click the [OK] button.

- c) When the [START] button to the right of [MTR-ON] is clicked, the corresponding motor operates. At the same time, the button display changes to [STOP].
- d) When the [STOP] button is clicked, the operation stops. At the same time, the button display changes to [START].
- **Note:**The operation stops automatically approx. 5 seconds after the [START] button is selected. In this case, the button display remains [STOP].
- e) End the service mode.
- Feed Operation Procedure
 - a) Set the documents to be fed in the document pickup tray.
 - b) Input the target number in [FEED-CHK] and then click the [SEND] button.
 - c) When transmission of the input data has been completed, the [Success] screen is displayed. Click the [OK] button.
 - d) Click the [START] button to the right of [FEED-ON] to start the targeted feed operation.
 - e) The feed operation ends when no more of the set documents are left.
 - f) End the service mode.
 - **Note:**Even if [Feeder>OPTION>STAMP-SW] is OFF, the stamp operation is executed as long as the stamp solenoid it attached.

7) Feeder>FUNCTION>TRY-A4

This section describes automatic adjustment of the document guide including [TRY-A4].

Execute automatic adjustment of the document guide after replacing the reader controller PCB. At this time, either the combination of [TRY-A4] and [TRY-A5R], or [TRY-LTR] and [TRY-LTRR], can be executed.

The operation procedure for the [TRY-A4] and [TRY-A5R] combination is described below. Use this as reference for the operation procedure for the [TRY-LTR] and [TRY-LTRR] combination.

- Operation Procedure
 - a) Adjust the document guide to A4 size.
 - b) When the [START] button to the right of [TRY-A4] is clicked, the opening amount data for the document guide is transmitted.

Note: Execute [TRY-A4] first.

c) When transmission has been completed, the [Success] screen is displayed. Click the [OK] button.

Success 🔀	
Push TRY-A5R Button.	
OK	

Figure 5-229

- d) Adjust the document guide to A5R size.
- e) When the [START] button to the right of [TRY-A5R] is clicked, the opening amount data for the document guide is transmitted.
- f) When transmission has been completed, the [Success] screen is displayed. Click the [OK] button.
- g) Check the opening amount value for the document guide in [Feeder> DISPLAY>TRY-WIDE].
- h) End the service mode.
- 8) Feeder>FUNCTION>ROLL-CLN

This is a convenient mode for cleaning rollers. Executing this mode causes the rollers to rotate.

However, the pickup, feed, and reversal rollers do not rotate due to the structure of the transmission system and to avoid pinching of hands.

- Operation Procedure
 - a) When the [START] button to the right of [ROLL-CLN] is clicked, the drive rollers rotate. At the same time, the button display changes to [STOP].
 - b) Clean the rollers while they are rotating.
 - c) Click the [STOP] button to stop the rollers.
 - Note: The rollers also stop rotating when the feeder cover is opened or closed, and upon feeder open/close detection.
 - d) End the service mode.
9) Feeder>OPTION

This mode executes the high-speed duplex mode and stamp settings.

Feeder	×
DISPLAY ADJUST FUNCTION OPTION	
LS-DBL High Speed Duplex Mode :	OFF
	OK Cancel

Figure 5-230

- [LS-DBL]:Setting of high-speed duplex mode This setting is [ON] at factory. Normally the [ON] setting is good, but when using documents for which feed problems often occur in the high-speed duplex mode, select the [OFF] setting.
- [STAMP-SW]: Setting of stamp This setting is [OFF] at factory. Set this setting to [ON] after the optional stamp solenoid has been installed.

- High-Speed Duplex Mode Operation Procedure
 - a) Click the radio buttons corresponding to the desired settings.

"ON" : ● ON ○ OFF "OFF": ○ ON ● OFF

- b) Click the [Send] button.
- c) When transmission of the data has completed, the [Success] screen is displayed. Click the [OK] button.
- d) End the service mode.
- Stamp Operation Procedure
 - a) To change the setting, click the checkbox to the left of [Stamp].
 "ON" : ☑ Stamp
 "OFF": □ Stamp
 - b) Click the [Send] button.
 - c) When transmission of the data has been completed, the [Success] screen is displayed. Click the [OK] button.
 - d) End the service mode.
 - e) Execute power supply reset.
 - **Note:** If power supply reset is not executed, the settings will not be enabled.
 - f) Check that the operation is performed as set.

7. Counter Set

1) Outline

Counter Set is used to change the values of the various counters. These values are used for counter display such as the service mode screen.

These data are saved to the DC controller PCB. Therefore, as these values are changed when the DC controller PCB is replaced, it is necessary to restore the pre-replacement values following DC controller PCB replacement. However, if the pre-replacement values are not known, estimated values can be used.

Counter Set				×
Total Counter :	107847	•		
ADF Total Counter:	102290	-		
Jam Counter :	8	-		
	SEND		<u>C</u> lose	



Total Counter

Total number of scanned sheets for both ADF and FB

- ADF Total Counter Total number of scanned (= fed) sheets for ADF
- Jam Counter
 Total number of document jam error occurrences

However, since the [ADF Total Counter] value is expressed as number of sheets, in the case of duplex scan, the counter is incremented by "1" each time both the front and back sides of a sheet are scanned. The first document scan (front side in the case of duplex scan) at the time of pickup and feed is not added to the [Jam Counter] value.

Moreover, the [Total Counter] and [ADF Total Counter] values are saved in the temporary memory of the DC controller PCB for an increase of up to 10 sheets, and to regular ROM if the increase exceeds 10 sheets. Therefore, when the power supply of this machine is switched off when the increase is 10 or fewer sheets, the increase portion gets deleted. However, regarding [Jam Counter], the count value is written to the regular ROM each time it is incremented.

2) Usage Method

The operation procedure is as follows.

- a) Input the new value in the box to the right of the desired item.
- b) When input of all the items has been completed, click the [SEND] button.
- c) When transmission of the data has been completed, the [Success] screen is displayed. Click the [OK] button.
- d) End the service mode.

8. Panel Check

1) Outline

Panel Check is used to check the operation panel keys, LEDs, and the LCD panel operation.





- 2) Usage Method
- Keys

When an operation panel key is pressed, the corresponding mark lights.

• LED, LCD

When the [ON] button at the right side of [ALL Lights] is clicked, all the LEDs and LCDs lights up. LEDs are provided for the Start key and New File key. When the [ON] button is clicked, the button display changes to [OFF]. When the [OFF] button is clicked, all the LEDs go out. When the [Reset] button is clicked, normal display is returned.

9. Firm Load

"Controller Firm Load" and "Scanner Firm Load" are used when changing the respective firmware.

For details, refer to the service information issued when changing the firmware. Do not use this mode by mistake.

- Outline of operation procedure
 - 1) Select the [Firm Load] to be changed.
 - 2) The screen for selecting the file where the firmware is saved is displayed.
 - 3) Specify and open the file.
 - 4) The firmware is loaded to the DR-7080C.
 - Note: If the firmware has been changed, write the number on the [ROM Version] label attached to the left of the DR-7080C.

10. Mirror

This mode is used to move the mirror unit to a fixed position for transport.

The mirror unit must be fixed with a special screw if the DR-7080C needs to be transported (by car, plane, etc.) after it has been installed. For this screw, refer to "CHAPTER 4, II. UNPACKING AND INSTALLATION".

- Operation Procedure
 - 1) Click the [Mirror] button.
 - After the mirror unit has been fixed, the [Success] screen is displayed. Click the [OK] button.

Success 🗵
Success To Move Mirror
OK



- 3) End the service mode.
- 4) Fix the mirror unit with a special screw.
- 5) Switch OFF the power supply.
- Note: The DR-7080C cannot function when the mirror unit is in a fixed position. After executing this mode, remove a screw and execute power supply reset before using the DR-7080C.

11. Service Label

In order to allow re-input the required adjustment values after replacing a part, a "service label" containing the factory setting values is pasted on the rear side of the document pickup tray.

Figure 5-234 shows this service label.

The various items of the service label indicate the service mode item names. The corresponding factory setting values are indicated in the "Factory" column.

When parts (platen glass, CCD unit, etc.) are replaced in the market, change the corresponding value.

COPIER	> ADJUST	Factory	1	2	COPIEF	R > ADJUST	Factory	1	2	COPIER	> ADJUST	Factory	1	2
ADJ-XY	ADJ-X	20			CCD	CCDU-RG	3			PASCAL	OFST-P-Y	1		
	ADJ-Y	91				CCDU-GB	1				OFST-P-M	3		
	ADJ-S	50				FCCDU-RG	0				OFST-P-C	-2		
	STRD-POS	118				FCCDU-GB	1				OFST-P-K	1		
	ADJ-Y-DF	72				100_RG	77			FEEDER	> ADJUST			
CCD	W-PLT-X	8198				100_GB	38				LA-SPEED	10		
	W-PLT-Y	8658				100DF-RG	-13				DOCST	4		
	W-PLT-Z	9352				100DF-GB	-12							
	DFTAR-R	1180				50-RG	55							
	DFTAR-G	1228				50-GB	18							
	DFTAR-B	1296				50DF-RG	3							
No. XXXXX	x Date. ^{yy}	//mm/dd	FC5-0	0829		50DF-GB	-10							

Figure 5-234

III. USER MODES

Table 5-301 lists the various user modes. For details, refer to the user manual.

No.	ltem	Factory Setting			
1	Count Only Mode	OFF			
2	Long Document Mode	OFF			
3	Stand-by Mode	ON			
4	Display Language Mode	100 V: Japanese Other: English			
5	Display Contrast Mode	Center			
6	Setting SCSI Transfer Mode	20 MB/sec			

Table 5-301

• Operation Procedure

- 1) Press the [Menu] key on the operation panel to display the user mode screen.
- 2) Press the [Menu] key to change the item.
- 3) Press the [Set] key to change the setting.
- 4) Press the [Enter] key.
- 5) Press the [Stop] key.
- Note: If the SCSI transfer speed has been changed, also execute power supply reset. If power supply reset is executed in the Count Only Mode, the setting returns to the [OFF] at factory setting.

IV. FEEDER ADJUSTMENT

1. Outline

The feeder adjustment procedure must be performed after removing and reinstalling the feeder, after replacing the feeder, or when a feed problem or image problem has occurred.

The adjustment consists of the sequence described below. Items that are not a problem can be skipped.

Regarding items that use the service mode, refer to "SERVICE MODE". Moreover, if the factory setting values printed on the service label are changed at the time of adjustment, write down the new values on the label.

- Opening angle (90°)
- ② Tray width adjustment*1
- ③ Sensor output*1
- ④ Tilt correction
- (5) Height adjustment
- ⑥ Right angle adjustment (skew adjustment)
- ⑦ Opening angle (70°)
- ⑧ Magnification adjustment*1
- Horizontal registration adjustment*1
- ① Leading edge registration adjustment*1
- ① White level adjustment*1
- *1: Service mode is used for these adjustments.
- **Note:**Be sure to clean the rollers, glasses, etc. before the image adjustments are preformed.

2. Opening Angle (90°)

Set the feeder opening angle to 90° before performing the following adjustments.

 Flip over the rubber cover ①, remove the 2 mounting screws ②, and detach the angle guide plate ③.



Figure 5-401

3. Tray Width Adjustment

Adjust the tray width if there are feed mode related problems.

In the DR-7080C, the document guide opening amount data is used to determine the feed mode, but it is not used to determine the size of scanned images.

For example, in the case of a document size of A4 or LTR, and scanning performed under conditions that enable the high-speed duplex mode, the tray width adjustment must be performed if performing feed in the low-speed duplex mode.

Execute the service mode [Feeder> FUNCTION>TRY-A4, TRY-A5R] or [Feeder> FUNCTION>TRY-LTR, TRY-LTRR].

4. Sensor Output Adjustment

Perform this adjustment after replacing the post-separation sensors, read sensors, and delivery reversal sensors.

- **Note**: Also perform this adjustment after replacing the reader controller PCB of the reader.
 - Adjustment Procedure
 - 1) Clean the sensors and the corresponding prisms.
 - 2) Check that there is no document inside the feeder.
 - Execute the service mode [Feeder> FUNCTION>SENS-INT].

5. Tilt Correction

 Loosen the nut ① behind the left hinge, turn the hex socket head bolt ②, moving the fixing member ③ until the line marking ④.

Rotate bolt clockwise to move member forward.

Rotate bolt counterclockwise to move member backward.

Then, tighten the nut and fix it.

6. Height Adjustment

- Check if the height adjusting blocks ① at the front left and rear are in contact with the reading glass ② when the feeder is closed.
- Note:Contact check is done either by performing actual scanning, or by lighting the scanning lamp with service mode [Copier>FUNCTION>MISC-R> SCANLANP].





Figure 5-403

Figure 5-402

[When not contacted]

If the height adjusting blocks at the front left and rear are not in contact with the reading glass, adjust them by turning the fixing screw ① at the top of the left hinge.



Figure 5-404

7. Right Angle Adjustment (Skew Adjustment)

This adjustment is performed to adjust the right angle of the scanner system of the reader and the feeder's document feed direction.

The skew adjustment is also described.

If the feeder is installed in a slanted position in relation to the reader, the read images will not be exactly at a right angle. Figure 5-405 shows an extreme example.



Figure 5-405

- Set the test chart on the document pickup tray and read the image. Correctly adjust the document guide.
- Note:Use a test chart with an A4 or LTR size frame as the test chart. No settings are provided for service tools, so create your own.
- Check the right angle of leading edge A of the image. If adjustments are necessary, perform adjustments from step 3.



Figure 5-406



Figure 5-407

3) Loosen the 2 knurling screws ① at the front of the right hinge unit.

Next, flip over the rubber cover ② at the rear of the right hinge unit and loosen the fixing nut ③, then turn the hex socket head bolt ④ to make adjustment.

- If A > 90°, turn counterclockwise.
- If A < 90°, turn clockwise.

* Skew adjustment

If the image is skewed as shown below even when right angle adjustment is performed, perform skew adjustment. And if the skewed image is caused by the skew failure not right angle failure, make a skew adjustment.





Figure 5-408

- After performing the adjustment, fix the hex socket head bolt by tightening the fixing nut. Then tighten the two knurling screws.
- 5) Scan again the test chart and check that part A is at a right angle. If not, do the same actions from the step 3.

- Adjustment Procedure
 - 1) Open the feeder cover.
 - Remove the screw ① of the No. 1 registration roller follower from the positioning hole, and gently tighten the screw through the adjustment slotted hole so that the stopper plate ③ can move along the adjustment slotted hole ②.



Figure 5-410

- If A > B, move the stopper plate downward and then tighten the screw.
 If A < B, move the stopper plate upward and then tighten the screw.
- Note: Be careful not to move the stopper plate too far so that the rollers come against the edge of the cover opening, as this will prevent the rollers from turning freely.
- Scan again the test chart and check that the adjustment has been properly made.

Note: Properly adjust the document guide.

8. Opening Angle (70°)

Set the feeder opening angle to 70° before performing the following adjustments.

- Flip over the rubber cover ① and attach the angle guide plate ③ with the two screws ②.
- **Note:**Check that the feeder opening angle is approximately 70°.



Figure 5-411

9. Magnification Adjustment

- 1) Prepare a test chart.
- Set the test chart on the platen glass and scan the image. Use this image as the FB image.
- Correctly set the same test chart on the document pickup tray and scan the image. Use this image as the ADF image.
- Compare the lengths in the feed direction of the FB image and the ADF image, and if dimension A is approximately 1 mm or more, proceed to step 5.
- **Note:**The rated value for the magnification error is 0.75% or less.

 Select service mode [Feeder>ADJUST> LA-SPEED] and perform adjustment by changing the value.

If ADF image is too short \rightarrow Decrease the value (slows the feed speed).

If ADF image is too long \rightarrow Increase the value (speeds the feed speed). [Unit: 0.1%]

<<Adjustment range: -30 to 30: -3 to +3%>>

6) Scan the test chart again and check that the image has been properly adjusted.





Figure 5-412

10. Horizontal Registration Adjustment

This adjustment adjusts the position of the document guide when adjustments have been performed in the service mode but were unsuccessful.

- Adjustment Using Service Mode
- 1) Prepare a test chart.
- 2) Correctly set the test chart on the document pickup tray and scan it.
- Check the position of top side of the image obtained in step 2. If dimension [A] differs from the test chart dimension by more than approximately 1.5 mm, proceed to step 4 to make an adjustment.
- Note: The rated value for horizontal registration is 1.8 mm or less for each side.



Figure 5-413

 Select service mode [Copier>ADJUST >ADJ-XY>ADY-Y-DF] and perform adjustment by changing the value. Increasing the value increases dimension [A].

[Unit: 0.1 mm]

<<Adjustment range: 21 to 106>>

5) Scan the test chart again and check that the image has been properly adjusted.

- Document guide position adjustment
- 1) Open the feeder cover and remove the internal cover.
- 2) Remove the three fixing screws ① and remove the cover ②.





Loosen the screw ①, remove the screws
 ② from the positioning hole ③, and gently tighten the screw through the adjustment slotted hole so that the volume unit ④ can move along the adjustment slotted hole.



Figure 5-415

- If image dimension [A] is too large, move the volume unit to the left. If it is too small, move it to the right.
- Tighten the loosened screw ① and the screw ② attached to the adjustment slotted hole ③.
- 6) Return the removed cover to its original position.
- 7) Scan the test chart again and check that the image has been properly adjusted.

11. Leading Edge Registration Adjustment

- 1) Prepare a test chart.
- 2) Correctly set the test chart in the document pickup tray and scan it.
- Check the position of the left side of the image obtained in step 2. If Dimension [A] differs from the test chart dimension by more than approximately 1.5 mm, proceed to step 4 to make an adjustment.
- Note: The rated value for horizontal registration is 1.8 mm or less for each side.





 Select service mode [Feeder>ADJUST> DOCST] and perform adjustment by changing the value.

Increasing the value reduces the margin of dimension [A].

[Unit: 0.1 mm]

<<Adjustment range: -50 to +50: -5 to +5 mm>>

5) Scan the test chart again and check that the image has been properly adjusted.

12. White Level Adjustment

Perform this adjustment if you perform any of the adjustments described above.

Execute service mode [Copier>Function> CCD]. For details, refer to the section on service mode [Copier>Function>CCD]. **Note:**Execute [DF-WLVL1] for FB first.

13. Hinge Pressure Adjustment

This adjustment is executed in case of a change request from the user regarding closing (position and speed) of the feeder under its own weight.

The feeder is designed to slowly close under its own weight between 10 and 20 cm as shown in the following figure. However, the closing performance of the feeder will change over time. This adjustment adjusts the closing performance of the feeder by adjusting the hinge pressure as needed.

- To lower the closing start position or reduce the closing speed, turn clockwise with an hex wrench.
- To increase the closing start position or increase the closing speed, turn counterclockwise with an hex wrench.
- **Note:**Use an hex wrench with face-to-face dimensions of 8 mm. If a commercially available hex wrench cannot be procured, purchase service tool CK-0540.



Figure 5-417

V. AFTER REPLACING PARTS

1. Outline

Feed and image checks must be performed after replacing parts.

The parts used in the DR-7080C include parts that require the execution of adjustments and settings following replacement. Table 5-501 lists these parts.

If the entire feeder is replaced, refer to "FEEDER ADJUSTMENTS" section.

For position adjustments following replacement of the scanner drive cable, refer to "CHAPTER 3 DISSASSEMBLY AND REASSEMBLY".

_	Part	Reader Controller	DC Controller	CCD unit	Sensors (3 types)	Document width	Platen glass
Itei	m	PCB	PCB		(* 5) * * *	volume	J
1	RAM clear	Clear					
2	Standard white plate data	Input (label)					Input (label)
3	FB read start position	Input (label)					
4	FB shading position	Input (label)					
5	ADF horizontal registration	Input (label)					
6	ADF read position	Input (label)					
7	CCD unit color shift	Input (label)		Input (label)			
8	CCD unit factory setting color shift	Input (label)					
9	Automatic gradation correction	Input (label)					
10	ADF leading edge registration	Input (label)					
11	ADF magnification	Input (label)					
12	Sensor output	Automatic adjustment			Automatic adjustment		
13	Tray width	Automatic adjustment				Automatic adjustment	
14	White level	Automatic adjustment					
15	SCSI setting		Manual setting				
16	Counter		Input				
17	User mode		Manual setting				

2. Reader Controller PCB

1) Version upgrade

First, check the reader firmware version in the service screen.

Look at the location where [SCANNER] is displayed.

If necessary, replace the firmware with the latest firmware corresponding to the unit. Use service mode [Reader Firm Load] to perform this change. For details, refer to the related service information.

😹 QPServiceTool(STI USB) Vender:CANON Product:DR-7080C	хие:1.12 ОК
<u>C</u> opier	Controller Firm Load
<u>F</u> eeder	Reader Firm Load
Counter Set	Total Count : 107847 ADF Total Count :102290 Jam Count :8
Panel Check	
MAIN 1.12 SCANNER 07.01 ADF 01.00	Mirror

Figure 5-501

2) RAM clear

Execute service mode [Copier>Function> CLEAR>R-CON].

Upon completion, execute power supply reset.

- Adjustment value re-input Input the values indicated on the service label for the following items in the service mode.
- Standard white plate data Copier>Adjust>CCD>W-PLT-X, Y, Z
- FB read start position Copier>Adjust>ADJ-XY>ADJ-X, Y
- FB shading position Copier>Adjust>ADJ-XY>ADJ-S
- ADF horizontal registration (Main scan position) Copier>Adjust>ADJ-XY>ADJ-Y-DF
- ADF read position Copier>Adjust>ADJ-XY>STRD-POS
- CCD unit color shift Copier>Adjust>CCD>CCDU>RG, GB
- CCD unit factory setting color shift Copier>Adjust>CCD>FCCDU>RG, GB
- Automatic gradation correction Copier>Adjust>PASCAL>OFSET-P-Y, M, C, K
- ADF leading edge registration (stop position)
 - Feeder>ADJUST>DOCST ADF magnification (feed speed)
 - Feeder>ADJUST>LA-SPEED

- Re-adjustments Re-adjust the following items in the service mode.
- Sensor output
 Feeder>FUNCTION>SENS-INT
- Tray width Feeder>FUNCTION>TRY-A4, A5R Feeder>FUNCTION>TRY-LTR, LTR-R
- White level Copier>Function>CCD>DF-WLVL1, WLVL2

3. DC Controller PCB

1) Version upgrade

First, check the controller firmware version in the service screen.

Look at the location where [MAIN] is displayed.

If necessary, replace the firmware with the latest firmware corresponding to the unit. Use service mode [Controller Firm Load] to perform this change. For details, refer to the related service information.

If the version number indicated on the [ROM Version] label pasted on the left side of the unit is different, correct the version number information on the label.

2) SCSI setting

Make the setting of the SCSI setting switch (SW103) on the DC controller PCB the same as the setting prior to replacement. If the pre-replacement setting is not known, ask to the user.

3) Counter

Re-input the counter value in service mode [Counter Set].

4) User mode

Make the user mode settings on the operation panel of the unit the same as the settings prior to replacement. If the pre-replacement settings are not known, ask to the user.

4. Other Parts

1) CCD unit

Input the values indicated on the labels attached to the CCD unit in service mode [Copier>Adjust>CCD>CCDU>RG, GB]. Be sure to also change the service label values.



Figure 5-502

2) Sensors

After replacing the post-separation sensors, read sensors, or delivery reversal sensors, execute service mode [Feeder >FUNCTION>SENS-INT].

 Document width volume
 Execute service mode [Feeder> FUNCTION>SENS-INT]. 4) Platen glass

Input the values indicated on the label attached to the platen glass in service mode [Copier>Adjust>CCD>W-PLT-X, Y, Z]. Be sure to also change the service label values.



Figure 5-503

VI. OPERATION TROUBLESHOOTING

Note 1: If a problem occurs, check the operation panel display of the DR-7080C and the screen display of the computer.

AC power does not come on

1

Nothing is displayed on the operation panel of the DR-7080C.

Cause/Fault Location	Step	Check Item	Result	Action	
Power cord connec- tion	1	Is power cord correctly connected?	NO	Correctly connect power cord.	
Power switch ON	2	Is power switch ON?	NO	Set power switch to ON.	
Connector connec- tion (Operation panel)	3	Is connector on operation panel properly connected?	NO	Properly connect connector.	
AC power supply voltage	4	Is the proper voltage supplied to the outlet?	NO	Explain to user that a problem is not with DR-7080C.	
Connector connec- tion (DC power supply)	5	Is connector on PCB properly connected?	NO	Properly connect connector.	
Power supply PCB	6	Does LED light on DC controller PCB?	NO	Replace power supply PCB.	
DC controller PCB	7	Is problem solved when DC con- troller PCB replaced?	YES	End.	

Table 5-601

2 Computer does not detect DR-7080C

The error message "Can't locate device; Check the cable and power supply." is displayed on the display connected to the computer.

Cause/Fault Location	Step	Check Item	Result	Action
I/F cable connection	1	Is I/F cable correctly connected?	NO	Connect I/F cable correctly.
Power supply	2	Is DR-7080C powered on? Is the order of turning power ON correct?	NO	Power ON again DR-7080C and computer, starting with DR-7080C.
I/F card	3	Are specifications of I/F card suitable?	NO	Use I/F card with suitable specifications.
	4	Is the I/F card installed correctly? Is the I/F card recognized by the computer?	NO	Install the I/F card correctly.
SCSI ID (In case of SCSI connection)	5	Is SCSI ID setting appropriate?	NO	Perform correct setting.

Table 5-602

3 Scanning does not occur, no documents are fed. (Hardware failure)

Check the error code that is displayed on the operation panel. See "ERROR DISPLAY AND REMEDY" for details.

Cause/Fault Location	Step	Check Item	Result	Action
DC power supply	1	Does LED101 light on ADF driver PCB?	NO	Check connector connection from ADF driver PCB to DC controller PCB.
Connector connec- tion (Motors)	2	Are connectors of motors, solenoids and clutches connected correctly?	NO	Connect connectors cor- rectly.
Drive transmission system	3	Is motor transmission system connected correctly?	NO	Connect motor transmission system correctly.
	4	Are gears, belt and other parts normal?	NO	Replace defective parts.
Scanner motor	5	Is problem solved when scanner motor is replaced?	NO	Check scanner HP sensor operation.
Feed related motor	6	Is problem solved when feed related motor is replaced?	NO	Check feed related sensor operation.
Scanning lamp	7	Is connector connected correctly?	NO	Connect connector correctly.
	8	Is problem solved when scanning lamp is replaced?	YES	End.
Reader controller PCB	9	Is problem solved when reader controller PCB is replaced?	YES	End.
DC controller PCB	10	Is problem solved when DC controller PCB is replaced?	YES	End.

Table 5-603

4 Document feed problem (jam, double feed, creases)

Cause/Fault Location	Step	Check Item	Result	Action
Document	1	Do documents match specifica- tions? (thickness, size, crease, curls, etc.)	NO	Use documents that match specifications or scan in FB mode.
Rollers	2	Are rollers clean? (Stain, wear)	NO	Clean or replace rollers.
Separation pad	3	Is separation pad clean? (Stain, wear)	NO	Clean or replace separation pad.
Scraper	4	Is scraper clean? (Dirt, deformation)	NO	Clean or replace scraper.
Feed guide	5	Is feed guide installed correctly?	NO	Install feed guide correctly.
	6	Is the surface that touches docu- ments clean?	NO	Clean or replace feed guide.
Drive transmission system	7	Turning smoothly? Are gears broken or belt loose?	YES	Perform assembly adjust- ment or replace defective parts.

Table 5-604

VII. IMAGE TROUBLESHOOTING

- **Note 1:** Image problems may be caused by the display and the printer used by the user. In such a case, the problem cannot be corrected on the DR-7080C.
- **Note 2:** Depending on the type of image and on the setting, document reproducibility becomes poor. In such a case, the image may be improved by changing the setting items.

1 Image is not output (completely white, completely black, all gray)



Cause/Fault Location	Step	Check Item	Result	Action
Reading surface setting (Completely black)	1	Are documents set on document pickup tray and is reading side set to "flat bed"?	YES	Change the setting.
"Brightness" setting	2	Is "Brightness" setting good?	NO	Change the setting. Also change the "Contrast" setting if necessary.
Connector connection (Images)	3	Are reader and controller connected correctly?	NO	Connect reader and con- troller correctly
Platen glass (Standard white plate)	4	Is standard white plate on the back of the platen glass clean?	NO	Clean standard white plate. Take special care after disassembly or parts re- placement.
CCD unit connec- tion	5	Is flat cable correctly connected?	NO	Correctly connect cable.
CCD adjustment value	6	Is [Copier>Adjust>CCD]-related setting the same as the service label value?	NO	Change it to the service label value.
CCD unit	7	Is problem solved when CCD unit is replaced?	YES	End.
Reader controller PCB	8	Is problem solved when reader controller PCB is replaced?	YES	End.
DC controller PCB	9	Is problem solved when DC controller PCB is replaced?	YES	End.

Table 5-701

2 Uneven density, streak (main scanning direction)



Cause/Fault Location	Step	Check Item	Result	Action
Platen glass (FB mode)	1	Is platen glass clean? (Stain, damage)	NO	Clean or replace platen glass. Also clean the back if necessary.
ADF reading glass (ADF mode)	2	Is ADF reading glass clean? (Stain, damage)	NO	Clean or replace ADF reading glass. Apply "silicon oil" if necessary.
Roller	3	Is roller clean? (Stain, wear)	NO	Clean or replace roller.
Drive transmission system	4	Turning smoothly? Are gears broken or belt loose?	NO	Perform assembly adjustment or replace defective parts.
Feed related motor	5	Is problem solved when feed related motor is replaced?	YES	End.

Table 5-702

3 Uneven density, streak (sub scanning direction)







Cause/Fault Location	Step	Check Item	Result	Action
Platen glass	1	Is platen glass clean? (Stain, damage)	NO	Clean or replace platen glass. Also clean the back if necessary. (Including standard white board)
ADF reading glass (ADF mode)	2	Is ADF reading glass clean? (Stain, damage)	NO	Clean or replace reading glass. Also clean the back if nec- essary.
White level ad- justment	3	Is problem solved when service mode is executed? Copier>Function>CCD> DF-WLVL1,DF-WLVL2	YES	End. See the "Service Mode" section for details.
CCD unit	4	Is problem solved when CCD unit is replaced?	YES	End.

Table 5-703

APPENDIX

I.	GENERAL DIAGRAM A-	-1
II.	READER DIAGRAM A-	.3
III.	FEEDER DIAGRAM A-	-5

IV.	SIGNAL NAMES LIST	A-7
V.	SPECIAL TOOLS LIST A	-10



I. GENERAL DIAGRAM



II. READER DIAGRAM



III. FEEDER DIAGRAM

2 1	1
мд <u>-</u> Мд	1
	1
ation sensor	
otor	н
re solenoid	G
ro motor	
	F
clutch	
	Е
/ reversal motor	
	D
motor	
	-
fan	C
	_
	В
	A
2 1	
IV. SIGNAL NAMES LIST

The list of signal names that could not be included in the circuit diagram is shown below.

• Table 1					
DC Controlle PCB	ər	Signal Name	In	Interface PCB	
	36	*SPOWER	1		
J106	35	SCMD+	2	J303	
	34	SCMD-	3		
	33	*SSCNST+	4		
	32	*SSCNST-	5		
	31	GND	6		
	30	TxOUT1-	7		
	29	TxOUT1+	8		
	28	GND	9		
	27	TxCLKOUT-	10		
	26	TxCLKOUT+	11		
	25	GND	12		
	24	*SPRTST-	13		
	23	*SPRTST+	14		
	22	SCTS-	15		
	21	SCTS+	16		
	20	SPO1+	17		
	19	SPO1-	18		
	18	*SPBD-	19		
	17	*SPBD+	20		
	16	SRTS-	21		
	15	SRTS+	22		
	14	TxOUT0-	23		
	13	TxOUT0+	24		
	12	GND	25		
	11	TxOUT2-	26		
	10	TxOUT2+	27		
	9	GND	28		
	8	TxOUT3-	29		
	7	TxOUT3+	30		
	6	*SPRDY	31		
	5	SSTS+	32		
	4	SSTS-	33		
	3	*SLIVEWAKE	34		
	2	*SDOWNLOAD	35		
	1	*SCPRDY	36		

Table 2				
Interface PCB		Signal Name	C	Reader ontroller PCB
	35	GND	1	
J308	34	STM_VREF	2	J202
	33	GND	3	
	32	PC_RxD	4	
	31	PC_TxD	5	
	30	GND	6	
	29	SCPRDY	7	
	28	SPO_1	8	
	27	SDOWNLOAD	9	
		(SPO_0+)		
	26	SLIVEWAKE (SPO_0-)	10	
	25	GND	11	
	24	SCTS*	12	
	23	SSTS*	13	
	22	GND	14	
	21	SPRDY	15	
	20	GND	16	
	19	SRTS	17	
	18	SCMD	18	
	17	GND	19	
	16	DF_LOAD	20	
	15	DF_DATA_IN	21	
	14	DF_DATA_OUT	22	
	13	GND	23	
	12	DF_CLK	24	
	11	GND	25	
	10	DF_HHMCK	26	
	9	DF_KSMCK	27	
	8	DF_RDMCK	28	
	7	DF_RKMCK	29	
	6	GND	30	
	5	FAN_ON	31	
	4	FAN_LOCK	32	
	3	HP	33	
	2	PLATEN	34	

1 GND

Table 2

35

• Table 3

Interface PCB		Signal Name	Reader ontroller PCB	
	50	GND	1	
J307	49	STM CLOCK	2	J203
	48	GND	3	
	47	STM STROBE	4	
	46	STM DATAA	5	
	45	STM DATAB	6	
	44	GND	7	
	13	SVSVNC	8	
	42		0	
	11	SVCLK*	10	
	40	GND	11	
	30	SHSVNC	12	
	38		12	
	37		17	
	36	SVD010 SVD017	14	
	30		10	
	30		10	
	34	SVDU19	17	
	33	GND	18	
	32	SVDO20	19	
	31	SVDO21	20	
	30	SVDO22	21	
	29	SVDO23	22	
	28	GND	23	
	27	SVDO8	24	
	26	SVDO9	25	
	25	SVDO10	26	
	24	SVDO11	27	
	23	GND	28	
	22	SVDO12	29	
21		SVDO13	30	
20		SVDO14	31	
	19	SVDO15	32	
	18	GND	33	
	17	SVDO0	34	
	16	SVDO1	35	
	15	SVDO2	36	
14		SVDO3	37	
13		GND	38	
12		SVDO4	39	
11		SVDO5	40	
10		SVDO6	41	
9		SVDO7	42	
8		GND	43	
7		GMKFLAG (SPI 0)	44	
6		SPI 1	45	
5		DF RDSENS	46	
	4	DE RMAESENS	47	
	3	DF HHSENS	48	
	2		10	
	4		+3	
	1	GND	50	

Controller PCB		Signal Name	CCI	D/AP PCB
	50	GND	1	
J204	49	GND	2	J101
	48	AP SCLK*	3	
	47	AP SDATA*	4	
	46	AP SLOAD	5	
	45	GND	6	
	40	AP ACLP*	7	
	43		8	
	42		q	
	11		10	
	40	FCP	11	
	30	SG	12	
	38	GND	12	
	37	FRS	14	
	36	GND	15	
	35	CK1*	16	
	34	GND	17	
	33	CK2*	18	
	32	GND	19	
	31	GND	20	
	30	SW3*	21	
	29	SW2*	22	
	28	SW1*	23	
	27	GND	24	
	26	ST4*	25	
	25	ST3*	26	
	24	ST2*	27	
	23	ST1*	28	
	22	GND	29	
	21	TG4*	30	
	20	TG3*	31	
	19	TG2*	32	
	18	TG1*	33	
	17	GND	34	
	16	SH3*	35	
	15	SH2*	36	
	14	SH1*	37	
	13	CLR*	38	
	12	SG	39	
	11	GND	40	
	10	GND	41	
	9	+12V	42	
	8	N.C.	43	
	7	+5V	44	
	6	+5V	45	
	5	+5V	46	
	4	N.C.	47	
	3	GND	48	
	2	GND	49	

Table 4

Reader

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1

GND

50

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•	lable	:5

Reader Controlle PCB	er	Signal Name	сс	D/AP PCB
	40	GND	1	
J205	39	CCD1	2	J102
	38	CCD2	3	
	37	CCD3	4	
	36	GND	5	
	35	CCD4	6	
	34	CCD5	7	
	33	CCD6	8	
	32	CCD7	9	
	31	GND	10	
	30	CCD8	11	
	29	CCD9	12	
	28	CCD10	13	
	27	GND	14	
	26	CCD11	15	
	25	CCD12	16	
	24	CCD13	17	
	23	GND	18	
	22	CCD14	19	
	21	CCD15	20	
	20	CCD16	21	
	19	CCD17	22	
	18	GND	23	
	17	CCD18	24	
	16	CCD19	25	
	15	CCD20	26	
	14	GND	27	
	13	CCD21	28	
	12	CCD22	29	
	11	CCD23	30	
	10	GND	31	
	9	CCD24	32	
	8	CCD25	33	
	7	CCD26	34	
	6	CCD27	35	
	5	GND	36	
	4	CCD28	37	
	3	CCD29	38	
	2	CCD30	39	
	1	GND	40	

V. SPECIAL TOOLS LIST

The special tools required for performing the services of this machine are listed below.

No.	Tool Name	Tool No.	Shape	Rank	Use/Remark
1	Mirror positioning tool	FY9-3009-040		С	Attachment of scanner drive cable

References: Rank symbols

- A = Tool one of which is owned by each service technician
- B = Tool one of which can be owned by a group of approx. 5 persons
- C = Tool one of which can be owned by each workshop

Prepared by

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FIRST EDITION (MAR. 2004) [63999]



DR-7080C

PARTS 内部用 CATALOG

FIRST EDTION

DR-7080C

100V	
120V	
220-240V	

50/60Hz 60Hz 50/60Hz

M11-0493 M11-0494	M11 [.]	-0491
M11-0494	M11 [.]	-0493
	M11 [.]	-0494

DR-7080C Draft version

Part No. 変更あり 1)P11-11 FL2-0728 FL2-1305 2)210-18 FL2-0625 FL2-0645

Canon

MAR. 2004

このパーツ・カタログは、DR-7080Cに対するサービス部品調達の手引として発行します。

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キヤノン電子株式会社 品質保証部 品質推進課

PREFACE

This Parts Catalog contains listings of parts used in the DR-7080C. Diagrams are provided with the listings to aid the service technician in identifying clearly, the item to be ordered.

Whenever ordering parts, consult this Parts Catalog for all of the information pertaining to each item. Be sure to include in the Parts Request, the full item description, the item part number and the quantity.

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本マニュアルについては、機密保持等その取扱には十分注意して下さい。 万一取扱を誤まりますと法律で処罰されることがあります。

Use of this manual should be strictly supervised to avoid disclosure of confidential information.

A	主要部品配置図	A	AS
P11	フィーダ外装カバー部	P11	FE
P12	原稿トレイ部	P21	DO
P31	開閉カバー部	P31	OI
P41	搬送部	P41	PA
001	ADF付属品	001	AI
210	リーダ部	210	RE
211	リーダフレーム部	211	RI
194	スキャナ冷却ファン部	194	SC
420	第1ミラー台部	420	M
430	第2ミラー台部	430	Μ
510	操作パネル部	510	OI
520	コントローラ部	520	CO

次

CONTENTS

- A ASSEMBLY LOCATION DIAGRAM
- P11 FEEDER EXTERNAL COVERS
- P21 DOCUMENT TRAY ASSEMBLY
- P31 OPEN/CLOSE PANEL ASSEMBLY
- P41 PAPER FEEDER ASSEMBLY
- 001 ADF ACCESSORY
- 210 READER ASSEMBLY
- 211 READER FRAME ASSEMBLY
- 194 SCANNER COOLING FAN ASSEMBLY
- 420 MIRROR ASSEMBLY 1
- 430 MIRROR ASSEMBLY 2
- 510 OPERATION PANEL ASSEMBLY
- 520 CONTROLLER ASSEMBLY

部品索引表

日

NUMERICAL INDEX

パーツカタログの見方

主要部品配置図について

部品図番号 (Figure No.) および各アセンブリの位置を捜 すとき,主要部品配置図を用います。

図中 _____ 内は部品図名称, (____) 内は部品図番号を 示しています。

部品番号の捜し方

どのアセンブリに使用されている部品かを,主要部品配置 図で調べその部品図番号 (Figure No.) のページをめくり ます。

部品図の中からその部品をみつけ,そのキーNo.を部品 番号リストの中から捜し出せば,部品番号・部品名称を知 ることができます。

注: 電源電圧・周波数等の仕様が異なる場合は、同一の キーNo.に複数の部品番号が記されているので "REMARKS"欄を注意して見るようにしてください。

部品番号リストについて

部品番号リストの内容項目は次のとおりです。

(1) <u>部品図番号およびキーNo. (FIGURE & KEY No.)</u>
 部品図番号は,各部品番号リスト欄の左上に示してあり,各部品図に対応しています。

また,キーNo. は,部品図中に示してある個々の部品 に対応します。

(2) <u>部品番号 (PART NUMBER)</u>

リストの2番目の欄には、部品番号が示してあります。 部品を発注する際は、必ずこの番号を明示してくださ い。NPNと記載されている部品はサービスパーツに設 定されていません。

注: 部品番号の末尾3桁を訂番といいます。部品改良等 の目的で部品の一部が変更になった場合, 訂番が 変わることがあります。これらの変更については, 技 術情報 (Service Information) で随時連絡されます ので, 常にこれらの情報も注意深く読むよう心がけて ください。 (3) <u>ランク(RANK)</u>

Nと記載されている部品はサービスパーツに設定され ていますが,在庫はされていません。注文を受けてか らの受注生産になります。

(4) <u>使用個数 (Q'TY)</u>

4番目の使用個数欄に示してある数字は,各部品図 中における各部品の使用数量を示しています。 使用個数欄には数字の他に以下のアルファベット文 字も表示されています。

- AR 数量を限定せず,組立時に必要に応じた数 量を使用するもの,および個数の明記できな いもの
- (5) 部品名称 (DESCRIPTION)

個々の部品の名称が英文と和文で記されています。 部品発注の際,部品名称も必ず明示してください。 電気部品等の主な仕様・型番は,英文の末尾に記し ているものもあります。

(6) <u>備考 (REMARKS)</u>

電源電圧・周波数等の仕様の違いがある場合に,表 示しています。

これらの表示のないものについてはすべての機械に 適用できます。

部品索引表(NUMERICAL INDEX)

部品番号の索引が巻末にあります。

部品番号がわかっていて,使用場所を調べる場合に活用 できます。

索引表の左の欄が部品番号 (PART No.), 中央の欄が 部品図番号 (FIGURE No.) とキーNo. (KEY No.), 右の 欄が使用個数 (Q'TY) を示しています。

HOW TO USE PARTS CATALOG

Assembly Location Diagrams

These diagrams show Figure Number and the locations of major assemblies of the machine. Figure names are identified in rectangular boxes ______, and Figure numbers are identified in elliptic boxes ______.

Finding a Parts Number

Refer to the Assembly Location Diagrams and find out the Figure Number. Turn to the page (s), and find its Key Number. Refer to the Parts List, and find the Key Number, Part Number and Description.

Note : While looking for a Part Number, pay particular attention to the voltage listed in the "REMARKS" column to ensure that the Part Number selected is for your type of machine.

Part List pages

The Parts List pages contain the following columns and information.

(1) Figure and Key Number.

The first column shows the Figure Number of the illustration corresponding to the Parts List, and the Key Number that identifies the part on the illustration.

(2) Part Number.

The second column shows the Part Number for the part. This Number must be used when ordering replacement parts or assemblies. Parts marked "NPN" are not service parts.

Note : The last three digits (suffix) of the Parts Number are called the Revision Number. The Revision Number is changed of the part is modified. Information regarding such changes will be provided by Service Information Bulletins. These Bulletins should be read carefully. (3) Rank.

Parts marked "N" are service parts, but are not stock items. They are produced on a special-order basis.

(4) Quantity (Q'ty).

The quantity shown in this column is the number of parts used in the figure.

This column indicates the following alphabets as well as numeric characters.

- AR This indicates that the quantity of a part is not specified, allowing the use of the number of parts needed for assembly and that the quantity cannot be mentioned clearly.
- (5) Description.

The Description column lists the description in Japanese and in English. When ordering the part, such description should be use as well as the part number. Some major specifications and type numbers are described at the end of the description in English.

(6) Remarks.

When there are differences in the specifications of power supply voltage or others, the differences are described in this column. If there are not such differences, the part is available for all machines.

Numerical Index

There is a Numerical Index at the end of this catalog. It can be used when looking for the location where the part is used, if you know the part number. The first column shows the Part Number, the second column lists the Figure and Key Number and the third column shows the used quantities.



FIGURE A-2 ASSEMBLY LOCATION DIAGRAM-2 主要部品配置図-2







FIGURE & KEY NO.	PART NUMBER	R A N K	Q' T Y	DESCRIPTION	REMARKS
P11 - 1	FC5-3015-000		1	ARM, OPEN/CLOSE PANEL STOPPER	
2	WE8-5256-000		1	開閉カバー ストッパ アーム CLAMP, FERRITE	
3	FC5-3102-000		1	フェライト クランプ PIN, POSITIONING	
4	FC5-3202-000		1	位置決めピン PANEL, FRONT	
5	FL2-1303-000		1	前カバー PANEL, REAR 後カバー	
6	FC5-3214-000		1	BLOCK, HEIGHT	
7	VS1-7177-006		1	局さコマ CONNECTOR, SNAP TIGHT, BK	
8	FL2-0725-000		1	中継コネクタ PLATE, OPEN/CLOSE SHAFT	
9	FL2-0726-000		1	開閉支軸板 PANEL, CENTER	
10	FL2-0727-000		1	中カバー PANEL, SIDE サイド カバー	
11	FL2-0728-000 *		1	PANEL, COPYBOARD	
12	XA9-1031-000		7	原稿台カハー SCREW, MACH., TRUSS HEAD, M4X8	
13	FC5-3211-000		5	SPRING, LEAF	
14	FC5-3212-000		1	板 ハネ SHAFT, PAPER READ ROLLER	
15	FC5-3221-000		2	リート コロ軸 SUPPORT, COPYBOARD PANEL 原稿台カバー支持板	
16	FC5-3226-000		1	HINGE, RIGHT	
17	FU5-6073-000		5	石ビンシ ROLLER, FEED	
18	FM2-1028-000		1	版法コロ CABLE, REGISTRATION SENSOR	
19	WT2-5565-000		1	レジスト センサ東線 CLAMP, CABLE	
20	FM2-1032-000		1	ソクセン オサエ CABLE, INTERFACE インターフェース ケーブル	
21	FM2-1034-000		1	CABLE, MOTOR/CLUTCH CONNECTING	
22	VS1-7177-002		1	モーダ/クラッチ 中継 束線 CONNECTOR, SNAP TIGHT, BK	
23	FM2-1021-000		1	中継コネクタ ADF CONTROLLER PCB ASSEMBLY	
501	XB1-2300-605		7	ADFコントローフ回路基板 SCREW, MACH., TRUSS HEAD, M3X6	
502	XB4-5400-805		15	ハイント ネシ SCREW, P. M4X8 P. タイト ネジ	
503	XB4-5401-205		7	SCREW, P. M4X12	
504	XD2-1100-502		1	P タイト ネジ RING, E	
505	XB6-7300-605		5	E リング SCREW. TP. M3X6	
				TP ネジ	



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P12-1

FIGURE & KEY NO.	PART NUMBER	R A N K	Q' T Y	DESCRIPTION	REMARKS
P12 - 1	FM2-1031-000		1	CABLE, DOCUMENT TRAY CONNECT	
2	FC5-3106-000		1	原稿トレイ 中継東線 GUIDE, DOCUMENT SIDE, FRONT 医商品 ムレ ボンズ(が)	
3	FL2-1304-000		1	原稿サイト ガイト(前) GUIDE, DOCUMENT SIDE, REAR 医商品 ムレ デンバ(※)	
4	FC5-3108-000		1	原稿サイト ガイト(友) RACK ニック	
5	FC5-3111-000		2	ラッツ RACK, DOCUMENT SIDE GUIDE 原稿サイド ガイド ラック	
6	FC5-3113-000		1	SPRING, LEAF 振いさ	
7	FC5-3137-000		1	100 FLAG, DOCUMENT LENGTH SENSOR 「「「「「「」」」 「「「」」」」」 「「」」」」 「」」」 「」」」 「」 「	
8	FL2-0735-000		1	原摘及で使用フラク TRAY, DOCUMENT, UPPER 「店店レイ(ト)	
9	FL2-0736-000		1	尿病にレイ(エ) TRAY, DOCUMENT, LOWER	
10	WG8-5593-000		2	原稿トレイ(ト) PHOTO INTERRUPTER TLP1242 フォトインタラプタ	
11	FM2-0696-000		1	VOLUME HOLDER ASSEMBLY	
12	FU5-0342-000		1	ホリューム ホルタ部 GEAR, 68T	
13	FM2-1024-000		1		
14	VS1-7177-003		1	可変抵抗ユニット CONNECTOR, SNAP TIGHT, BK	
15	VS1-7177-006		1	中継コネクダ CONNECTOR, SNAP TIGHT, BK 中継コネクタ	
501	XB4-7300-805		6	SCREW, TAPPING, TRUSS HEAD, M3X8	
502	XB4-7401-005		4	パイント ダッビン ネシ SCREW, TAPPING, TRUSS HEAD, M4X10	
				ハイント ダッビン ネシ	



FIGURE & KEY NO.	PART NUMBER	R A N K	Q' T Y	DESCRIPTION	REMARKS
P31 - 1	FC5-2953-000		1	LEVER, OPEN/CLOSE	
2	FC5-2956-000		2	開閉レバー PLATE, REGISTRATION ADJUSTMENT	
3	FC5-2957-000		2	レジスト調整板 LEVER, LATCH	
4	FC5-2958-000		1	ラッチ レバー SHAFT, LATCH	
5	FC5-2963-000		2	ラッチ軸 RETAINER, OPEN/CLOSE GUIDE 開閉ガイド押え	
6	FC5-3014-000		1	SPRING, LEAF	
7	FL2-0733-000		1	板バネ PANEL, OPEN/CLOSE	
8	FL2-0734-000		1	開閉カバー GUIDE, OPEN/CLOSE	
9	FU5-2234-000		4	開閉ガイド SPRING, COMPRESSION	
10	FU5-2235-000		1	圧縮バネ SPRING, TENSION 引っ張りバネ	
11	FU5-2236-000		2	SPRING, COMPRESSION	
12	FU5-2250-000		4	圧縮バネ SPRING, COMPRESSION	
13	FC5-3025-000		1	上箱//不 SHAFT, REGISTRATION ROLLER, 1	
14	FU5-6075-000		1	レジスト ローラ軸(1) ROLLER, REGISTRATION, 1	
15	FU5-6079-000		2	レジスト ローフ(1) ROLLER, REGISTRATION, 2 レジスト ローラ(2)	
16	FC5-2962-000		1	SHAFT, REGISTRATION ROLLER, 2	
17	FU5-6074-000		5	レジスト ローラ軸(2) ROLLER, REGISTRATION, 3	
18	FM2-1035-000		2	レジスト ローラ(3) WIRE, GROUNDING	
19	MA2-7050-000 *		1	アース ワイヤ SHEET, CLEANING(C)	
20	MA2-7048-000 *		1	クリーニンク シート SHEET, CLEANING(A) クリーニング シート	
21	MA2-7049-000 *		1	SHEET, CLEANING(B)	
22	MA2-7051-000 *		2	クリーニング・シート SHEET, CLEANING(D)	
23	MA2-7052-000 *		5	SHEET, CLEANING(E)	
24	FC5-2954-000		8	クリーニング シート SCRAPER	
501	XB1-2300-605		3	スクレーハ SCREW, MACH., TRUSS HEAD, M3X6 バインド ネジ	
502	XB4-5300-809		7	SCREW, P, M3X8	
503	XD2-1100-402		2	ビ タイト 不ジ RING, E	
504	XD2-1100-502		16	E リング RING, E	
				E リング	

FIGURE P41 (1/3)

PAPER FEEDER ASSEMBLY 搬送部





PAPER FEEDER ASSEMBLY 搬送部



FIGURE & KEY NO.	PART NUMBER	R A N K	Q' T Y	DESCRIPTION	REMARKS
P41 - 1	FC5-2980-000		1	GUIDE, REVERSE	
2	FC5-2991-000		1	反転刀イト ARM, RELEASE	
3	FC5-2992-000		1	解除アーム ARM, RELEASE	
4	FC5-2994-000		1	時時アーム ROLLER, REGISTRATION, 1	
5	FC5-2995-000		1	レジスト ローラ(1) ROLLER, REGISTRATION, 2 レジスト ローラ(2)	
6	FC5-2996-000		1	ROLLER, PAPER DELIVERY	
7	FC5-2998-000		1		
8	FC5-3008-000		1	リート ローノ KNOB, JAM CLEARING	
9	FC5-3010-000		1	ROLLER, PAPER FEEDER 地洋ローラ	
10	FC5-3144-000		1	mcとローフ LEVER, LOCK ロック レバー	
11	FC5-3145-000		1	LEVER, LOCK	
12	FC5-3146-000		1		
13	FC5-3147-000		1	SHUTTER, DOCUMENT	
14	FC5-3148-000		1	原稿ンヤツダ SPRING, TORSION やドリップ	
15	VS1-7177-003		1	ねじりハネ CONNECTOR, SNAP TIGHT, BK 中継コネクタ	
16	FC5-3154-000		1		
17	FC5-3177-000		1	加圧弾隊リング SHAFT, PRESSURE RELEASE LINK	
18	FC5-3225-000		1	加圧解除リング軸 HINGE, LEFT キートンズ	
19	FC5-4424-000		7	たしつジ CLIP	
20	FL2-0730-000		1	クリッフ LINK, PRESSURE RELEASE 加圧解除リンク	
21	FL2-0731-000		1	GUIDE, REGISTRATION	
22	FL2-0732-000		1		
23	FS1-9003-000		2	方離トリットト SCREW, STEPPED, M4 だいビス	
24	FS2-1052-000		12	タンヒス BUSHING	
25	FS5-1605-000		10	フッシンク BUSHING ブッシング	
26	FU5-0331-000		1	GEAR, 18T	
27	FU5-0332-000		1	GEAR, 24T/PULLEY, 28T	
28	FU5-0333-000		1	PULLEY, 28T $= 2 - \frac{1}{2}$	
29	FU5-0334-000		1	281 2–1 GEAR, 241	
30	FU5-0335-000		1	241 キア GEAR, 42T/24T 42T/24T ギア	
31	FU5-0336-000		2	PULLEY, 30T	
32	FU5-0338-000		1		
33	FU5-0340-000		1	GEAR, 24T	
34	FU5-0346-000		1	241 キア GEAR, 22T	
35	FU5-2247-000		1	22T ギア SPRING, TENSION 引っ張りバネ	

FIGURE & KEY NO.	PART NUMBER	R A N K	Q' T Y	DESCRIPTION	REMARKS
P41 - 36	FU5-2248-000		1	SPRING, TENSION 引っ張りバネ	
37	FU5-2249-000		1	SPRING, COMPRESSION 圧縮バネ	
38	XA9-1031-000		51	SCREW, MACH., TRUSS HEAD, M4X8 バインド ネジ	
39	XF2-1108-040		1	BELT, TIMING タイミング ベルト	
40	XF2-1108-860		1	BELT, TIMING, COGGED タイミング ベルト	
41	XF9-0746-000		1	BELT, TIMING, COGGED タイミング ベルト	
42	XG9-0237-000		2	BEARING, BALL ベアリング	
43	FC5-3218-000		1	COVER, PAPER FEEDER FRAME 搬送フレーム カバー	
44	FL2-0737-000		1	GUIDE, PAPER FEEDER, 1 搬送ガイド(1)	
45	FL2-1301-000		1	GUIDE, PAPER FEEDER, 2 搬送ガイド(2)	
46	FU5-0339-000		1	PULLEY, 23T	
47	XF9-0747-000		1	EST ノーク BELT, TIMING, COGGED	
48	VS1-7177-002		1	CONNECTOR, SNAP TIGHT, BK	
49	WT2-5565-000		7	CLAMP, CABLE	
50	VS1-7176-002		1	CONNECTOR, SNAP TIGHT, BK 中継コネクタ	
51	FC5-2997-000		1		
52	FC5-3027-000 *		1	ROLLER, PLATEN	
53	FC5-3002-000		1	SPRING, TORSION	
54	FC5-3004-000		1	はしめへん GUIDE, PLATEN, 2 プローン、ポイン(2)	
55	FC5-3006-000		1	ンフテン ガイト(2) SHAFT, PLATEN ROLLER, 1 プラテン コロ軸(1)	
56	FC5-3007-000		1	SHAFT, PLATEN ROLLER, 2	
57	FC5-3019-000		1	フラナン コロ軸(2) SPRING, TORSION	
58	FC5-4425-000		5		
59	FL2-0753-000		1	GUIDE, PLATEN, 1	
60	FL2-0754-000		1	ARM, SWING BUSHING, FRONT 揺動ブッシング アーム(前)	
61	FL2-1298-000		1	ARM, SWING BUSHING, REAR	
62	FU5-0341-000		1	111111111111111111111111111111111111	
63	FU5-6078-000		10	ROLLER, PLATEN	
64	FC5-2987-000		1	SHAFT, PAPER READ ROLLER	
65	FC5-2988-000		9	リート コロ軸 RETAINER, ROLLER コロ押え	
66	FC5-3021-000		3	SPRING, TORSION	
67	FC5-3024-000		5	ねしタハネ SHAFT, PAPER FEEDER ROLLER 地学 コロホ	
68	FC5-3026-000		2	版本コロ判 SPRING, TORSION	
69	FL2-0741-000		5	ねしりハイ HOLDER, PAPER FEEDER ROLLER	
70	FU5-6076-000		5	掫达コロ ホルタ ROLLER, PAPER FEEDER 搬送コロ	

FIGURE & KEY NO.	PART NUMBER	R A N K	Q' T Y	DESCRIPTION	REMARKS
P41 - 71	FM2-1029-000		1	CABLE, REGISTRATION CONNECTING	
72	FC5-2989-000		4	レンスト中継東線 HOLDER, PAPER DELIVERY ROLLER	
73	FC5-2990-000		1	排紙コロ バルダ SHAFT, PAPER DELIVERY ROLLER サダニロまた	
74	FC5-3022-000		4	排紙コロ軸 SPRING, TORSION ただいです	
75	FU5-6077-000		4	ねしりハネ ROLLER, PAPER DELIVERY 排紙コロ	
76	FC5-2978-000		1	GUIDE, REFORM 時代けれてい	
77	FC5-2979-000		1	DEFLECTOR, REVERSE	
78	FC5-3020-000		1	SPRING, TORSION	
79	FL2-0742-000		1	はCOTAT GUIDE, PAPER DELIVERY 地紙ガイド	
80	FU5-2240-000		1	芽和カイト SPRING, COMPRESSION 圧縮バネ	
81	FM2-1022-000		3	SENSOR PCB UNIT	
82	FC5-2975-000		1	セノリ回路基板 GUIDE, PAPER FEEDER, 3 観光ガスビ(2)	
83	FM2-1026-000		1	版区カイト(3) CABLE, PAPER FEEDER SENSOR 観光ないせ声線	
84	FK2-0210-000		1	mx とビンリ 未稼 SOLENOID	
85	FC5-2967-000		1	ンレンイト CAM, READ ROLLER RELEASE リード ローラ解除カム	
86	FK2-0207-000		1	MOTOR, STEPPING, DC	
87	FU5-0329-000		1	GEAR 31T	
88	FU5-0330-000		1	PULLEY, 40T/GEAR, 20T	
89	VS1-7177-004		2	CONNECTOR, SNAP TIGHT, BK	
90	WG8-5593-000		4	中枢コインジ PHOTO INTERRUPTER TLP1242 フォトインタラプタ	
91	XF2-1106-540		1	BELT, TIMING, COGGED	
92	FC5-3149-000		1	タイミング ヘルド FLAG, REGISTRATION SENSOR	
93	FC5-3150-000		1	SPRING, TORSION	
95	FC5-3152-000		1	はしかれた BLOCK, PRESSURE RELEASE 加圧報除コス	
96	FU5-2245-000		1	加圧併除コマ SPRING, COMPRESSION 圧縮バネ	
97	FU5-2251-000		1	SPRING, COMPRESSION 圧続パス	
98	FK2-0205-000		1	Montor, STEPPING, DC ステッピングDC モータ	
99	FU5-2237-000		2	SPRING, TENSION	
100	FM2-1023-000		1	コンボッハネ LED PCB UNIT	
101	FC5-3128-000		1	FLAG, EMPTY SENSOR エンプティ センサ フラグ	
102	FC5-3129-000		1	HOLDER, SENSOR	
103	FC5-3130-000		1	センテ ホルタ SPRING, TORSION	
104	MA2-7046-000 *		1	ねしッハイ ROLLER, PICK-UP	
105	FC5-3114-000		1	キュリン ローフ SHAFT, SEPARATION ROLLER	
106	MA2-7047-000 *		1	ア離ローフ軸 ROLLER, SEPARATION 分離ローラ	

FIGURE & KEY NO.	PART NUMBER	R A N K	Q' T Y	DESCRIPTION	REMARKS
P41 - 107	FC5-3116-000		1	SHAFT, PICK-UP ARM	
108	FC5-3118-000		1	ビックアップ アーム軸 ARM, PICK-UP, FRONT	
109	FC5-3119-000		2	給紙アーム(前) BUSHING	
110	FC5-3120-000		2	フッシンク SPRING, CLUTCH	
111	FC5-3121-000		1	クラッチ ハネ ARM, PICK-UP, REAR 給紙アーム(後)	
112	FC5-3124-000		2	SHAFT, PAPER PICK-UP WEIGHT	
113	FL2-1299-000		1	給紙ウエイト軸 GUIDE, PAPER PICK-UP ピックマップ	
114	FU5-0343-000		2	PULLEY, 18T	
115	FU5-2244-000		1	SPRING, COMPRESSION	
116	XF2-1106-140		1	圧縮ハネ BELT, TIMING タイミング ベルト	
117	FC5-3163-000		1	JOINT	
118	FK2-0204-000		1		
119	FU5-0344-000		1	ステッピングDC モーダ PULLEY, 60T/GEAR, 60T	
120	XF2-1108-560		1	BELT, TIMING	
121	FC5-3165-000		1	タイミング・ベルト JOINT ジョイント	
122	FC5-3166-000		1	LEVER, SHUTTER	
123	FC5-3167-000		1	SPRING, CLUTCH	
124	FC5-3168-000		1	クラッチ バネ SPRING, CLUTCH	
125	FC5-3169-000		1	クラッチ SHAFT, CLUTCH	
126	FC5-3170-000		1	クラッチ軸 BUSHING ブッシング	
127	FK2-0209-000		1		
128	FU5-0345-000		1	電磁クラッチ GEAR, 40T	
129	FK2-0217-000		1	MOTOR, STEPPING, DC	
130	FU5-0328-000		1	ステッピンクロレーモーダ GEAR 24T	
131	FK2-0208-000		1	241 キア FAN ファン	
132	FC5-3009-000		1	SHAFT, PAPER FEEDER ROLLER	
133	FL2-0747-000		1	版とコロ甲 GUIDE, OPEN/CLOSE 問題またい	
134	FU5-2238-000		2	囲間ガンイト SPRING, COMPRESSION	
135	FU5-6073-000		4	上稲ハネ ROLLER, FEED	
136	FC5-3153-000		1	城区コロ GUIDE, PRESSURE RELEASE 加圧解除ガイド	
137	MF1-4291-000 *		1	HOLDER, SEPARATION PAD, 2	
138	MF1-4292-000 *		1) 分離バッド ホルタ(2) HOLDER, SEPARATION PAD, 1	
139	MF1-4293-000 *		1	分離ハット ホルタ(1) HOLDER, SEPARATION PAD, 3	
501	XB1-2300-605		26	万離ハット ホルダ(3) SCREW, MACH., TRUSS HEAD, M3X6	
502	XD2-1100-322		5	ハイント ネン RING, E E リング	

FIGURE & KEY NO.	PART NUMBER	R A N K	Q' T Y	DESCRIPTION	REMARKS
P41 - 503	XD2-1100-402		4	RING, E	
504	XD2-1100-502		33	E U20 RING, E	
505	XD2-1100-642		11	E リンク RING, E	
506	XB4-7300-805		5	SCREW, TAPPING, TRUSS HEAD, M3X8	
507	XD2-1100-242		1	ハイント ダッビン ネシ RING, E E リング	
508	XD3-2200-122		9	PIN, DOWEL	
509	XD3-2200-102		4	PIN, DOWEL	
510	XB1-1301-209		2	SCREW, MACH., PAN HEAD, M3X12	
511	XB4-5400-805		2	SCREW, P, M4X8	
512	XB6-7300-605		2	F ダイト ホジ SCREW, TP, M3X6 TP ネジ	





FIGURE & KEY NO.	PART NUMBER	R A N K	Q' T Y	DESCRIPTION	REMARKS
001 - 1 2 3 4	FC5-3207-000 FC5-3223-000 FC5-3060-000 FC5-3050-000 FC5-3051-000		2 6 1 1	COVER, HINGE ヒンジ カバー PLATE, HINGE COVER ヒンジ カバー板 LABEL, DOCUMENT SIZE (DIS) 原稿サイズ ラベル LABEL, SIZE (AB) サイズ ラベル LABEL, SIZE (INCH/A) サイズ ラベル	100V 120V
5	FC5-3052-000 FC5-3053-000 FC5-3055-000 FC5-3056-000 FC5-3057-000		1 1 1 1	LABEL, SIZE (A) サイズ ラベル LABEL, SIZE (INCH/AB) サイズ ラベル LABEL, PROHIBITION DOCUMENT (JPN) 禁止原稿ラベル LABEL, PROHIBITION DOCUMENT (EFSP) 禁止原稿ラベル LABEL, PROHIBITION DOCUMENT (EFIGS) 禁止原稿ラベル	220-240V 100V 120V 220-240V
6 7 501	XA9-0874-000 FC5-3227-000 XB1-2400-605		4 2 4	SCREW, M3X8 B タイト ネジ PLATE, ANGLE CONTROL 角度規制板 SCREW, MACH., TRUSS HEAD, M4X6 バインド ネジ	

FIGURE 210 READER

READER ASSEMBLY リーダ部



FIGURE & KEY NO.	PART NUMBER	R A N K	Q' T Y	DESCRIPTION	REMARKS
210 - 2	FU5-9167-000		3	SCREW, FIXED, M4	
4	FM2-0617-000		1	固定ネジ CCD UNIT	
6	FL2-0644-000		1	FILTER, AIR	
7	FB4-0726-000		2	SPRING, LEAF	
8	FC5-2792-000		2	イメーバネ PLATE, GLASS SUPPORT ガラス突き当て板	
9	FC5-2891-000		4	DAMPER, READER	
11	FC5-2927-000		1	PANEL, RIGHT UPPER	
12	FC5-2929-000		1	SPACER, DF MOUNTING, RIGHT DE取付台スペーサ(右)	
13	FC5-2930-000		1	SPACER, DF MOUNTING, LEFT DF取付会スペーサ(左)	
14	FC5-2937-000		1	PANEL, RIGHT 右カバー	
15	FC5-2938-000		1	PANEL, LEFT	
16	FH2-7036-000		1	CABLE, DDI-S SERIAL	
18	FL2-0625-000 *		1	GLASS, READER, FRONT LEFT 法しまえガラス(前左)	
19	FL2-0627-000		1	GLASS, COPYBOARD 「 店会 ガラス	
20	FL2-0628-000		1	MOUNT, JUMP ジャンプ台	
22	FL2-0646-000		1	PANEL, LEFT UPPER	
23	FU5-8264-000		1	テエリバー PLATE, WIDTH SIZE (AB)	100V
	FU5-8265-000		1	和にリイス シレート PLATE, WIDTH SIZE (INCH/A)	120V
	FU5-8266-000		1		220-240V
24	FU5-8268-000		1	減りイス フレード PLATE, LENGTH SIZE (AB) 横サイズ プレート	100V
	FU5-8269-000		1	PLATE, LENGTH SIZE (INCH/A)	120V
	FU5-8270-000		1	していたい クレート PLATE, LENGTH SIZE (A) 株サイブ プリート	220-240V
25	FU5-9168-000		2	後 9 イス シレート SCREW, STEPPED, M5 EPビュ	
26	XA9-1521-000		13	なした SCREW, RS, M3X6 PSタイト さい	
27	MA2-7054-000 *		1	LABEL, GLASS CLEANING POSITION (JPN) ガラス 清掃位置ラベル	100V
	MA2-7055-000 *		1	LABEL, GLASS CLEANING POSITION (EFIGSP) ガニュ、連提位業ニベル	120V, 220–240V
28	FC5-2934-000		1	COVER, FILTER	
29	FL2-0643-000		1	PANEL, REAR 後本バー	
501	XB3-6400-805		31	SCREW, RS, M4X8	
502	XB4-5400-806		1	SCREW, P, M4X8 P タイト ネジ	





FIGURE & KEY NO.	PART NUMBER	R A N K	Q' T Y	DESCRIPTION	REMARKS
211 - 1	FB1-7109-000		2	PULLEY	
2	FB5-3087-000		2	フーリ PULLEY	
3	FC5-2792-000		2		
4	FC5-2804-000		1	ガラス突き当て板 WIRE, FRONT	
5	FK2-0225-000		1	ワイヤ(前) INVERTER, XENON LAMP キセノン ランプ インバータ	
6	FK2-0234-000		1	CABLE, FLAT	
7	FL2-0642-000		1	フラット ケーフル PLATE, POSITIONING	
8	FS5-9772-000		3	位直決の板 SCREW, HEIGHT ADJUSTING	
9	FL2-0631-000		1	高ご調整イン CABLE, FLEXIBLE FLAT	
10	FU5-2284-000		1	フレキシフル フラット ゲーフル SPRING, TENSION 引っ張りバネ	
11	FU5-2285-000		2	SPRING, TENSION	
12	XA9-1521-000		9	51つ張りハイ SCREW, RS, M3X6	
13	XA9-1415-000		2	RS タイト ホン SCREW, FLAT HEAD, M4 株式会社	
14	XF2-4610-840		1	特半ホン BELT, TIMING	
15	XG9-0508-000		2	タイミング ヘルト BEARING, BALL, F688ZZ ボール ベアリング	
16	WT2-5565-000		6	CLAMP, CABLE	
17	WT2-5826-000		1	リクセン オサエ BUSHING	
18	XA9-0265-000		2	SCREW, W/WASHER, TRUSS HEAD	
19	FM2-1107-000		1	サツキ ハイント ネシ CABLE, READER POWER SUPPLY	
20	FM2-1108-000		1	リーダ電源東線 CABLE, ADF LATTICE CONNECTOR ADF ラティス コネクタ東線	
21	FK2-0149-000		3	PHOTO-INTERRUPTER, TLP1253 (C6)	
22	FB5-3636-000		1	SPRING, TORSION	
23	FC5-2882-000		1	LEVER, SENSOR	
24	FK2-0237-000		1	MOTOR, STEPPING, DC	
25	FS5-9227-020		1	ステッピングDC モーダ SCREW, STEPPED, M4 段ビス	
26	FM2-1102-000		1		
27	FM2-1104-000		1	ADF インターフェース回始金板 CABLE, READER POWER SUPPLY	
28	FC5-2805-000		1	・ ヮーァ コントローフ电源クーフル WIRE, RIGHT ロノタノた)	
29	FL2-0638-000		1	ンイ かくロノ SHAFT, DRIVE 取動軸	
30	FM2-1105-000		1	^{●ビジ1日} CABLE, SENSOR センサ束線	
31	FM2-1111-000 *		1		
501	XB1-2400-607		17	リーダ コントローフ回路基板 SCREW, MACH., TRUSS HEAD, M4X6	
502	XB3-6400-805		86	バイント ネシ SCREW, RS, M4X8	
503	XB6-2400-508		4	RS ダイト イン SETSCREW, M4X5	
504	XB7-2100-407		3	ロッカク アナツキ トメネジ NUT, HEX, M4 ロッカク ナット	

FIGURE & KEY NO.	PART NUMBER	R A N K	Q' T Y	DESCRIPTION	REMARKS
211 - 505 506 507 508	XD2-1100-642 XB6-7300-607 XB1-2300-606 XB1-2260-806		6 2 6 2	RING, E E リング SCREW, TP, M3X6 TP ネジ SCREW, MACH., TRUSS HEAD, M3X6 バインド ネジ SCREW, MACH., TRUSS HEAD, M2.6X8 バインド ネジ	
FIGURE 194 SCANNER COOLING FAN ASSEMBLY スキャナ冷却ファン部



Note: 「*」印の部品は DR-7080C 専用部品です。その他は複写機流用部品です。

The parts marked "*" mean the unique parts of DR-7080C. The others are the commoned parts of Copier.

FIGURE & KEY NO.	PART NUMBER	R A N K	Q' T Y	DESCRIPTION	REMARKS
194 - 1 2 3 501	FH5-1061-000 FM2-1109-000 VS1-7177-003 XB4-7303-007		1 1 1 2	FAN ファン CABLE, FAN CONNECTING ファン中継束線 CONNECTOR, SNAP TIGHT, BK 中継コネクタ SCREW, SELF-TAPPING, M3X30 バインド タッピン ネジ	

FIGURE 420 MIRROR ASSEMBLY 1 第1ミラー台部

Note: 「*」印の部品は DR-7080C 専用部品です。その他は複写機流用部品です。

The parts marked "*" mean the unique parts of DR-7080C. The others are the commoned parts of Copier.

FIGURE & KEY NO.	PART NUMBER	R A N K	Q' T Y	DESCRIPTION	REMARKS
420 - 1 2 3 4 5	FC5-0127-000 FC5-0128-000 FC5-2835-000 FK2-0224-000 FK2-0239-000		4 1 2 1	PIN, SLIDER スライダ ピン REFLECTOR 反射笠 SPRING, LEAF, MIRROR ミラー押さえバネ LAMP, XENON キセノン ランプ HOLDER, XENON LAMP キセノン ランプ ホルダ	
6 7 501	FL2-0641-000 WT2-5565-000 XB2-8300-607		1 1 4	MIRROR, 1 第1ミラー CLAMP, CABLE ソクセン オサエ SCREW, W/WASHER, M3X6 バネツキ ネジ	





Note : 「*」印の部品は DR-7080C 専用部品です。その他は複写機流用部品です。

The parts marked "*" mean the unique parts of DR-7080C. The others are the commoned parts of Copier.

FIGURE & KEY NO.	PART NUMBER	R A N K	Q' T Y	DESCRIPTION	REMARKS
430 - 1	FC5-0127-000		2	PIN, SLIDER	
2	FC5-0136-000		2	スライダ ビン PIN, SLIDER	
3	FC5-0165-000		2	スライダ SPRING, LEAF, MIRROR	
4	FC5-2840-000		2	ミラー押さえバネ SPRING, LEAF, MIRROR	
5	FC5-2843-000		1	ミラー押さえバネ SPRING, LEAF 板バネ	
6	FL2-0647-000		4	PULLEY	
7	FN7-4012-000		1	MIRROR, 2	
8	FN7-4013-000		1	第2ミラー MIRROR, 3 がわって	
9	XA9-0425-000		3	第3ミラー SETSCREW, HEX SOCKET	
10	FL2-0639-000		1	ロツカク アテツキ トメネシ MOUNT, PULLEY, FRONT プーリ台(前)	
501	XB1-2300-406		5	SCREW, MACH., TRUSS HEAD, M3X4	
502	XB2-8300-607		4	ハイント ネシ SCREW, W/WASHER, M3X6	
503	XD2-1100-642		2	ハネツキ ネシ RING, E	
				E 127	



510-1

Note:「*」印の部品は DR-7080C 専用部品です。その他は複写機流用部品です。 The parts marked "*" mean the unique parts of DR-7080C. The others are the commoned parts of Copier.

FIGURE & KEY NO.	PART NUMBER	R A N K	Q' T Y	DESCRIPTION	REMARKS
510 - 1	MF1-4274-000 *		1	COVER, OPERATION	
2	MA2-6948-000 *	Ν	1	CASE, PANEL	
3	MA2-6949-000 *	Ν	6	KEY TOP, OPERATION	
4	MA2-6950-000 *	Ν	1	KEY TOP, FILE	
5	MA2-6951-000 *	N	1	ファイル キー KEY TOP, STOP ストップ キー	
6	MA2-6952-000 *	Ν	1	KEY TOP, START	
7	MA2-6953-000 *	Ν	1	GUIDE, LIGHT	
8	MG1-3575-000 *		1		
9	MG1-3569-000 *		1	PCB ASSEMBLY, SWITCH	
10	WT2-5134-000		3	スイッチ ガイロ キハン CLAMP, CABLE ワイヤー ホルダー	
50	XB4-7300-609		5	SCREW, TAPPING, BH M3x6	
51	XB1-2250-405		4	B 21 N M3 L6 SCREW, BH M2.5×4	
52	XB1-2300-605		4	SCREW, BH M3x6	



Note: 「*」印の部品は DR-7080C 専用部品です。その他は複写機流用部品です。

The parts marked "*" mean the unique parts of DR-7080C. The others are the commoned parts of Copier.

FIGURE & KEY NO.	PART NUMBER	R A N K	Q' T Y	DESCRIPTION	REMARKS
520 - 1	FH2-5006-030 *		1		100V
2	RH9-1015-020 *		1	$\mathcal{Y} = \mathcal{X} = \mathcal{F}$ POWER CORD	100V
3	RH2-5145-020 *		1	テンテン ヨート 100V POWER CORD	120V
4	RH2-5116-030 *		1	テンテン ヨート 120V POWER CORD	220−240∨
5	MA2-6960-000 *	N	1	テンゲン コート 230V INSULATOR, UPPER デンゲンヨウ ゼツエン シート(ウエ)	
6	MG1-3571-000 *		1		
7	MG1-3574-000 *		1		
8	MH3-2059-000 *		1	PCB ASSEMBLY, POWER	
9	MA2-6961-000 *	Ν	1	リンワン INSULATOR, LOWER デンゲンヨウーゼッエン・シート(シタ)	
10	FA9-2113-000		1	SCREW, W/TOOTH WASHER M4x8 キクザツキ バインド ビス	
11	MG1-3570-000 *		1	CABLE ASSEMBLY, AC	
12	MA2-6962-000 *		1	COVER, LOWER LEFT	
13	MH7-6010-000 *		1	SWITCH, POWER SUPPLY	
14	MG1-3576-000 *		1	FAN ASSEMBLY	
15	WT2-5056-000		1	CLIP, CABLE エッジーサドル	
16	MA2-6959-000 *	Ν	1	PLATE, FAN	
17	MA2-6956-000 *	Ν	1	BOX, BOTTOM	
18	XH9-0133-000 *	Ν	4	FOOT, PLASTIC	
19	MA2-6958-000 *	Ν	1	PLATE, DDI CABLE	
20	WT2-0313-000		1	BUSHING, CABLE ブッシュ	
21	MG1-3573-000 *		1	CABLE ASSEMBLY, DC OUT	
22	MG1-3568-000 *		1	PCB ASSEMBLY, CONTROL	
23	MH7-9020-000 *	Ν	9	PLATE, GROUNDING	
24	WT2-5178-000		4	CLIP, CABLE	
25	MA2-6963-000 *		1	COVER, LOWER RIGHT ミギ シタ カバー	
26	XA9-0633-000 *		12	SCREW, W/WASHER M4x8 RS タイト ザガネツキ M4 18	
50	XB1-2300-605		27	SCREW, BH M3x6 メインド M3 16	
51	XB4-7300-609		4	SCREW, TAPPING, BH M3x6	
52	XB1-2302-509		2	SCREW, BH M3x25	
53	XB1-2400-605		2	SCREW, BH M4x6 バインド M4 L6	
54	XB2-4400-605		1	SCREW, W-WASHER M4x6 ダブル・セルス・M4 L G	
55	XB1-2300-409		2	シフル セムス M4 L6 SCREW, BH M3x4 バインド M3 L4	

〒369-1892

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Canon



Document Scanner DR-7080C

INSTRUCTIONS INSTRUCTIONS BEDIENUNGSANLEITUNG INSTRUCCIONES INSTRUZIONI INSTRUCTIES



Canon DR-7080C

INSTRUCTIONS

Canon

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Für EMVG

Dieses Produkt ist zum Gebrauch im Wohnbereich, Geschäfts-und Gewerbebereich sowie in Kleinbetrieben vorgesehen.

MODEL NAMES

Model DR-7080C is identical to model M11049. Model DR-7080C is the sales name of model M11049.

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Sie dürfen die SOFTWARE weder weitergeben, unterlizensieren, verkaufen, vermieten, verleasen, verleihen, an einen Dritten übergeben oder einem Dritten sonstwie zugänglich machen oder die SOFTWARE aus dem Land, in dem sie ursprünglich erworben wurde in ein anderes Land senden oder bringen, ohne die erforderliche Genehmigung der entsprechenden Regierung einzuholen. Die SOFTWARE und das zugehörige schriftliche Material darf weiterhin nicht kopiert, dupliziert, übersetzt oder in eine andere Programmiersprache konvertiert werden, außer, dies wird hierin ausdrücklich festgelegt.

Anderung, Disassemblierung, Dekompilierung oder Reverse Engineering der SOFTWARE sowie der zugehorigen Dokumentation durch den Lizenznehmer oder durch Dritte sind untersagt. Falls diese Bestimmung nicht der gangigen Rechtsprechung entspricht, ist sie gegenstandslos.

2. SICHERUNGSKOPIE: Das Anfertigen einer einzigen Reservekopie der SOFTWARE nur zu Sicherungszwecken oder das Anfertigen einer Kopie der SOFTWARE auf dem permanenten Datenträger (z. B. Festplatte) Ihres Computers und das Behalten des Originals zu Sicherungszwecken ist erlaubt. Falls diese Bestimmung nicht der gangigen Rechtsprechung entspricht, ist sie gegenstandslos, jegliches weitere Kopieren der SOFTWARE stellt eine Verletzung dieses Vertrags dar. Sie sind verpflichtet, auf der Reservekopie den Urheberrechtsvermerk anzubringen bzw. ihn darin aufzunehmen.

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CANON, CANON - GESCHÄFTSSTELLE, DER VERKÄUFER ODER HÄNDLER ÜBERNEHMEN KEINERLEI STILLSCHWEIGENDE GARANTIEN, DARUNTER GARANTIEN ZUR HANDELSÜBLICHEN BRAUCHBARKEIT ODER NUTZBARKEIT ZU EINEM BESTIMMTEN ZWECK BEZÜGLICH DER SOFTWARE ODER DES ZUGEHÖRIGEN SCHRIFTLICHEN MATERIALS.

WEDER CANON. CANON - GESCHÄFTSSTELLE. DER VERKÄUFER NOCH DER HÄNDLER KANN HAFTBAR GEMACHT WERDEN FÜR VERLUSTE ODER SCHÄDEN, EINSCHLIESSLICH FOLGESCHÄDEN ODER SONSTIGEN VERLUSTEN WIE ENTGANGENE GEWINNE, AUSGABEN ODER UNANNEHMLICHKEITEN. DIE EVENTUELL DURCH DIE SOFTWARE VERURSACHT WURDEN ODER DARAUS RESULTIEREN

CANON, CANON - GESCHÄFTSSTELLE, DER VERKÄUFER ODER HÄNDLER IST KEINESFALLS VERPFLICHTET, SIE GEGEN JEGLICHE ANSPRÜCHE ODER DURCH DRITTE PARTEIEN ANGESTRENGTE GERICHTSVERFAHREN SCHADLOS ZU HALTEN, WENN ES DARUM GEHT, DASS DIE SOFTWARE ODER DAS ZUGEHÖRIGE SCHRIFTLICHE MATERIAL ODER DEREN VERWENDUNG DAS GEISTIGE EIGENTUM DIESER DRITTEN PARTELANGEBLICH VERLETZT

DAS OBEN GESAGTE UMFASST CANONS GESAMTE HAFTUNG UND DEN EXKLUSIVEN RECHTSBEHELF DES LIZENZNEHMERS IN VERBINDUNG MIT DER SOFTWARE UND DEM ZUGEHÖRIGEN SCHRIFTLICHEN MATERIAL

5. DAUER DES VERTRAGS: Dieser Vertrag tritt nach Öffnen der versiegelten Diskettenpackung in Kraft und bleibt in Kraft, bis er beendet wird. Sie können diesen Vertrag beenden, indem Sie die SOFTWARE und alle Kopien vernichten. Dieser Vertrag endet ebenfalls, wenn eine Bedingung dieses Vertrags verletzt wird. Außerdem müssen Sie anschließend sofort die SOFTWARE und alle Kopien vernichten, damit Canon seine entsprechenden Rechte gerichtlich durchsetzen kann.

6. HINWEIS AUF EINGESCHRÄNKTE RECHTE DER US-REGIERUNG: Die SOFTWARE wird mit EINGESCHRÄNKTEN RECHTEN geliefert. Verwendung, Vervielfältigung oder Offenlegung unterliegt den Einschränkungen, die dargelegt sind in Unterabschnitt (c) (I) (ii) der Klausel "Rights in Technical Data and Computer Software" in DFARs 252.227-7013 oder Unterabschnitt (c)(I) und (2) der "Commercial Computer Software Restricted Rights Clause" in FAR 52.227-19, je nach Anwendbarkeit.

7. TEILNICHTIGKEIT: Falls eine Bedingung dieses Vertrags von einem Gericht oder Tribunal kompetenter Rechtssprechung für rechtswidrig erklärt oder befunden wird, ist diese Bedingung null und nichtig bezüglich der Rechtssprechung dieses Gerichts oder Tribunals, und die restlichen Bedingungen dieses Vertrags behalten volle Gültigkeit und bleiben in Kraft.

8. BESTÄTIGUNG: DURCH ÖFFNEN DER VERSIEGELTEN DISKETTENPACKUNG BESTÄTIGEN SIE, DASS SIE DIESEN VERTRAG GELESEN UND VERSTANDEN HABEN UND DIE BEDINGUNGEN DES VERTRAGS EINHALTEN. SIE SIND EBENFALLS EINVERSTANDEN, DASS DIESER VERTRAG DIE VOLLSTÄNDIGE UND EXKLUSIVE FINVERSTÄNDNISERKLÄRUNG ZWISCHEN IHNEN UND CANON BEZÜGLICH DIESER ANGELEGENHEIT DARSTELLT UND DASS ER ALLE VORSCHLÄGE UND VORHERIGEN VERTRÄGE - GANZ GLEICH OB MÜNDLICH ODER SCHRIFTLICH - UND ALLE ANDEREN ABSPRACHEN ZWISCHEN IHNEN UND CANON BEZÜGLICH DIESER ANGEL EGENHEIT AUSSER KRAFT SETZT, KEINE ERGÄNZUNG ZU DIESEM VERTRAG IST WIRKSAM, WENN SIE NICHT VON EINEM ORDNUNGSGEMÄSS BESTELLTEN VERTRETER VON CANON UNTERZEICHNET WURDE.

Falls Sie Fragen zu diesem Vertrag haben oder Canon aus einem anderen Grunde ansprechen wollen, wenden Sie sich bitte an die zuständige Canon-Geschäftsstelle, die in der Dokumentation zur Software aufgelistet ist.

LEA ATENTAMENTE ESTA ADVERTENCIA ANTES DE ABRIR EL PAQUETE SELLADO QUE CONTIENE LOS DISCOS

CONTRATO DE LICENCIA DE SOFTWARE DE CANON

IMPORTANTE: LEA ESTE CONTRATO ANTES DE ABRIR EL PAQUETE SELLADO QUE CONTIENE LOS DISCOS. AL ABRIRLO, SE CONSIDERA OUE ACEPTA LAS CLÁUSULAS DE ESTE CONTRATO.

Este documento es un contrato de licencia entre usted y Canon Electronics Inc. ("Canon"). AL ABRIR EL PAQUETE SELLADO QUE CONTIENE LOS DISCOS, SE ENTIENDE QUE USTED ACEPTA LAS CLÁUSULAS DE ESTE CONTRATO. SI NO ESTÁ DE ACUERDO CON LAS CLÁUSULAS DE ESTE CONTRATO, NO ABRA EL PAQUETE SELLADO QUE CONTIENE LOS DISCOS Y DEVUELVA INMEDIATAMENTE, ANTES DE UTILIZARLOS, ABRIRLOS O DESEMPAQUETARLOS, EL ESCÁNER CANON, EL PAQUETE DE DISCOS QUE CONTIENE LOS PROGRAMAS DE SOFTWARE DEL CONTROLADOR DEL ESCÁNER PROGRAMA DE UTILIDAD DEL ESCANER Y/ O CANON O DE QUIEN LE OTORGÓ LA LICENCIA (EL "SOFTWARE") Y LA DOCUMENTACIÓN QUE LO ACOMPAÑABA, JUNTO CON CUALQUIER OTRO ELEMENTO QUE HAYA RECIBIDO, AL LUGAR DONDE LOS HAYA ADQUIRIDO, A EFECTOS DE UN REEMBOLSO TOTAL.

En contrapartida por el derecho de utilización del SOFTWARE, usted se compromete a cumplir los términos y condiciones de este contrato.

1. OTORGAMIENTO DE LICENCIA. Canon le otorga el derecho personal, no exclusivo, de utilizar el SOFTWARE en un solo ordenador. Está autorizado a transferir físicamente el SOFTWARE de un ordenador a otro, siempre que el SOFTWARE se utilice sólo en un ordenador a la vez.

No está autorizado a asignar, otorgar sublicencias, vender, alguilar, prestar, ceder ni transferir el SOFTWARE a terceros, ni a enviarlo ni llevarlo fuera del país donde lo adquirió originalmente sin obtener las autorizaciones que fueran necesarias de los gobiernos involucrados, ni a copiar, duplicar, traducir ni convertir a otro lenguaje de programación el SOFTWARE ni la documentación que lo acompaña, a menos que se establezca expresamente en este contrato

Excepto bajo aquellas condiciones permitidas expresamente por las leves aplicables, no podra alterar, modificar, descompilar o de cualquier otra forma invertir la ingenieria del SOFTWARE o la documentacion adjunta ni encargar a un tercero que lo realice.

2. COPIA DE SEGURIDAD. Usted está autorizado a hacer una copia del SOFTWARE con el único propósito de guardar una copia de seguridad, o copiar el SOFTWARE en un dispositivo de almacenamiento permanente (por ejemplo, un disco duro) de su ordenador y mantener el original como copia de seguridad. Excepto bajo aquellas condiciones permitidas expresamente por las leves aplicables, cualquier otra copia que se haga del SOFTWARE se considerará una violación de este contrato. La nota de derechos de autor debe reproducirse e incluirse en la copia de seguridad.

3. SOPORTES Y ACTUALIZACIÓN. Canon, la affiliada de Canon, el distribuidor o representante no son responsables del mantenimiento ni de enseñarle a utilizar el SOFTWARE. No se pondrán a su disposición actualizaciones, arreglos ni soporte para el SOFTWARE.

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CANON, LA AFFILIADA DE CANON, EL DISTRIBUIDOR O EL REPRESENTANTE NO SE HACEN RESPONSABLES DE NINGUNA GARANTÍA IMPLÍCITA, INCLUYENDO CUALQUIER TIPO DE GARANTÍA DE COMERCIALIZACIÓN O ADECUACIÓN PARA UN PROPÓSITO DETERMINADO, RESPECTO AL SOFTWARE O A LA DOCUMENTACIÓN ADJUNTA.

CANON, LA AFFILIADA DE CANON, EL DISTRIBUIDOR Y EL REPRESENTANTE NO SE HACEN RESPONSABLES DE NINGÚN DAÑO O PÉRDIDA, INCLUYENDO CUALOUIER TIPO DE DAÑO O PÉRDIDA INCIDENTAL O QUE PUDIERA DERIVARSE, COMO UNA PÉRDIDA DE BENEFICIOS, POSIBLES GASTOS O INCONVENIENTES, SEA CUAL FUERE LA CAUSA O DERIVADOS DEL SOFTWARE, LA DOCUMENTACIÓN ADJUNTA O EL USO.

CANON, LA AFFILIADA DE CANON, EL DISTRIBUIDOR Y EL REPRESENTANTE NO TIENEN NINGUNA OBLIGACIÓN DE INDEMNIZARLE POR NINGUNA RECLAMACIÓN REALIZADA POR TERCEROS QUE ALEGUEN QUE EL SOFTWARE, LA DOCUMENTACIÓN ADJUNTA O SU USO INFRINJA CUALQUIER PROPIEDAD INTELECTUAL DE ESOS TERCEROS.

TODO LO ANTERIORMENTE EXPUESTO ES LA ÚNICA RESPONSABILIDAD QUE ASUME CANON, Y CONSTITUYE EL ÚNICO DERECHO DE REPARACIÓN QUE USTED PUEDE RECLAMAR EN RELACIÓN AL SOFTWARE Y LA DOCUMENTACIÓN ADJUNTA.

5. TÉRMINO. Este Contrato entrará en vigor a partir del momento en que se abra el paquete de discos sellado y seguirá en vigor hasta que lo finalice. Puede finalizar este Contrato destruyendo el SOFTWARE y todas sus copias. Este Contrato también finalizará si usted no cumple algunos de sus términos. Además de cumplir los derechos legales de Canon, en ese caso usted deberá destruir el SOFTWARE y todas sus copias de forma inmediata.

6. NOTA SOBRE LOS DERECHOS RESTRINGIDOS DEL GOBIERNO DE LOS EE.UU. Este SOFTWARE se entrega con DERECHOS RESTRINGIDOS. El uso, copia o difusi-n están sujetos a las restricciones que se establecen en el subapartado (c) (1) (ii) de la cláusula de Derechos de datos técnicos y software informático de DFAR 252.227-7013 o en el subapartado (c) (1) y (2) de la cláusula Derechos restringidos de software informático comercial de FAR 52.227-19, según proceda.

7. RESERVA. En el caso de que la provisi-n de este Contrato se declare o considere ilegal por parte de cualquier tribunal o comisi-n de jurisdicci-n competente, esa provisi-n será nula respecto a la jurisdicci-n de ese tribunal o comisi-n y las demás provisiones de este Contrato conservarán toda su vigencia.

8. RECONOCIMIENTO. AL ABRIR EL PAQUETE DE DISCOS SELLADO, USTED RECONOCE QUE HA LEÍDO ESTE ACUERDO, LO HA ENTENDIDO Y ESTÁ DE ACUERDO CON SUS CLÁUSULAS Y CONDICIONES. TAMBIÉN CONSIDERA OUE ESTE CONTRATO CONSTITUYE LOS TÉRMINOS DEL CONTRATO COMPLETOS Y EXCLUSIVOS ENTRE USTED Y CANON REFERENTE AL TEMA QUE NOS IMPLICA, Y REEMPLAZA TODAS LAS PROPUESTAS O CONTRATOS ANTERIORES, YA SEAN VERBALES O ESCRITOS, Y CUALQUIER OTRO TIPO DE COMUNICACIÓN ENTRE USTED Y CANON RELACIONADA CON ESTE TEMA. NINGUNA RECTIFICACIÓN DE ESTE ACUERDO SERÁ EFECTIVA A MENOS QUE ESTÉ FIRMADA POR UN REPRESENTANTE DE CANON DEBIDAMENTE AUTORIZADO.

En caso de que desee plantear alguna pregunta sobre este Contrato, o desee ponerse en contacto con Canon por cualquier motivo, escriba a la affiliada local de Canon

LEGGERE ATTENTAMENTE PRIMA DI APRIRE LA CONFEZIONE SIGILLATA

CONTRATTO DI LICENZA SOFTWARE CANON

IMPORTANTE: LEGGERE IL SEGUENTE CONTRATTO PRIMA DI APRIRE LA CONFEZIONE SIGILLATA. L'APERTURA DELLA CONFEZIONE SIGILLATA CONTENENTE IL SOFTWARE COMPORTA L'ACCETTAZIONE DEL CONTRATTO.

Il presente documento costituisce il contratto di licenza tra l'utente e Canon Electronics Inc. ("Canon"). L'APERTURA DELLA CONFEZIONE SIGILLATA COMPORTA L'ACCETTAZIONE DEI TERMINI DEL PRESENTE CONTRATTO, OUALORA NON SUNTENDESSE ADERIRE ALLE CONDIZIONI DEL PRESENTE CONTRATTO, NON APRIRE LA CONFEZIONE SIGILLATA E RESTITUIRE PRONTAMENTE LO SCANNER CANON, LA CONFEZIONE SIGILLATA CONTENENTE I DRIVER DELLO SCANNER E/O PROGRAMMA SOFTWARE UTILITY SCANNER DI PROPRIETÀ DI CANON O DEL SUO LICENZIATARIO ("SOFTWARE"), LA RELATIVA DOCUMENTAZIONE ED ALTRI COMPONENTI PRESSO IL LUOGO DI ACOUISTO PER IL RIMBORSO CHE VERRÀ CORRISPOSTO UNICAMENTE NEL CASO IN CUI I SUDDETTI COMPONENTI NON SIANO STATI USATI, APERTI O DISIMBALLATI.

Al fine di poter usufruire del diritto di utilizzare il SOFTWARE, l'utente accetta di rispettare i termini e le condizioni del presente Contratto.

1. CONCESSIONE DELLA LICENZA: Canon concede all'utente il diritto personale non esclusivo di usare il SOFTWARE unicamente su un solo computer. L'utente può trasferire fisicamente il SOFTWARE da un computer ad un altro, purché il SOFTWARE venga usato soltanto su una macchina alla volta.

L'utente non può assegnare, offrire in licenza, vendere, affittare, noleggiare, prestare, trasferire o cedere a terze parti, né spedire o esportare il SOFTWARE in un paese diverso da quello in cui è stato ottenuto originariamente senza la necessaria autorizzazione dei governi interessati, né copiare, duplicare, tradurre o convertire in un altro linguaggio di programmazione il SOFTWARE o la relativa documentazione, se non nei casi ivi espressamente previsti.

[Ad eccezione di quanto espressamente dichiarato dalle leggi in vigore] L'utente non può alterare, modificare, disassemblare, decompilare o altrimenti assemblare all'inverso il SOFTWARE o la relativa documentazione, né può autorizzare terze parti a fare quanto sopra descritto.

2. COPIA DI RISERVA: L'utente può creare una copia del SOFTWARE esclusivamente a scopo di archiviazione o copiare il SOFTWARE su un'unità di memorizzazione permanente (ad esempio, un disco fisso) del proprio computer e conservare la copia originale come copia di riserva. [Ad eccezione di quanto espressamente dichiarato dalle leggi in vigore] Qualsiasi altra copia del SOFTWARE costituisce una violazione del presente Contratto. L'utente è tenuto a includere le informazioni di copyright sulla copia di riserva.

3. SUPPORTO ED AGGIORNAMENTO: Canon, la consociata Canon, il loro distributore o rivenditore non sono responsabili della manutenzione o della prestazione di assistenza per l'uso del SOFTWARE. Per il SOFTWARE, non verranno resi disponibili aggiornamenti, correzioni o supporto di alcun genere.

4. GARANZIA LIMITATA: Canon, la consociata Canon, il loro distributore o rivenditore non garantiscono la prestazione continuata, né la mancanza o la correzione di errori. Di conseguenza, il SOFTWARE viene fornito in licenza "COSÌ COMÈ", senza alcuna garanzia. Il minidisco su cui il SOFTWARE è memorizzato è garantito da difetti di fabbricazione in condizioni di uso normale per un periodo di novanta (90) giorni dalla data di acquisto, come comprovato dalla necessaria documentazione. La garanzia limitata non è applicabile nel caso in cui il minidisco venga danneggiato accidentalmente o in caso di uso improprio del SOFTWARE e sarà comunque a solo beneficio dell'utente originale del SOFTWARE.

CANON, LA CONSOCIATA CANON, IL LORO DISTRIBUTORE O RIVENDITORE NON RICONOSCE ALCUNA GARANZIA IMPLICITA, IVI COMPRESA LA GARANZIA DI COMMERCIABILITÀ OD IDONEITÀ PER UNO SCOPO PARTICOLARE.

NÉ CANON, NÉ LA CONSOCIATA CANON, NÉ IL LORO DISTRIBUTORE O RIVENDITORE SARANNO IN NESSUN CASO RESPONSABILI DI ALCUNA PERDITA O DANNO, COMPRESA QUALSIVOGLIA PERDITA O DANNO CONSEQUENZIALE OVVERO ACCIDENTALE, QUALE AD ESEMPIO, MANCATO GUADAGNO, SPESA OD INCONVENIENTE IN QUALSIVOGLIA MODO DERIVANTE O PROVOCATO DAL SOFTWARE, DALLA DOCUMENTAZIONE CHE LO ACCOMPAGNA O DALL'UTILIZZO DI DETTO SOFTWARE O DETTA DOCUMENTAZIONE.

CANON, LA CONSOCIATA CANON, IL LORO DISTRIBUTORE O RIVENDITORE NON AVRÀ ALCUN OBBLIGO DI INDENNIZZO NEI CONFRONTI DELL'UTENTE RELATIVAMENTE A RIVENDICAZIONI SOLLEVATE O PROCEDIMENTI LEGALI INTENTATI DA TERZI CONTRO L'UTENTE MEDESIMO A CAUSA DELLA PRESUNTA VIOLAZIONE DELLA PROPRIETÀ INTELLETTUALE DI DETTI TERZI DERIVANTE DAL SOFTWARE, DALLA DOCUMENTAZIONE CHE LO ACCOMPAGNA O DALL'UTILIZZO DI DETTO SOFTWARE O DETTA DOCUMENTAZIONE

OUANTO SOPRA COSTITUISCE L'INTERA DICHIARAZIONE DI RESPONSABILITÀ DI CANON ED IL RIMEDIO ESCLUSIVO DELL'UTENTE IN RELAZIONE AL SOFTWARE ED ALLA DOCUMENTAZIONE CHE LO ACCOMPAGNA.

5. DURATA: Il presente Contratto entra in vigore all'atto dell'apertura del pacchetto sigillato e rimane in vigore fino a rescissione avvenuta. Il presente Contratto può essere rescisso distruggendo questo SOFTWARE ed ogni copia del medesimo. Il presente Contratto viene anche rescisso qualora l'utente manchi di ottemperare a qualsivoglia clausola del Contratto medesimo. Oltre ad onorare tutti gli obblighi legali nei confronti di Canon, l'utente è altresì tenuto a distruggere questo SOFTWARE ed ogni copia del medesimo.

6. NOTA SULLA LIMITAZIONE DEI DIRITTI SANCITA DAL GOVERNO U.S.A.: Questo SOFTWARE viene fornito con LIMITAZIONE DEI DIRITTI, L'utilizzo, la duplicazione o la diffusione è soggetta a limitazioni ai sensi del subparagrafo (c) (1) (ii) della clausola Rights in Technical Data and Computer Software, DFAR 252.227-7013, ovvero del subparagrafo (c) (1) e (2) della clausola Commercial Computer Software Restricted Rights, FAR 52.227-19. secondo applicabilità

7. STRALCIABILITÀ: Nel caso in cui una disposizione del presente Contratto venga ritenuta o dichiarata illegale da qualsivoglia corte o tribunale avente giurisdizione, detta disposizione sarà considerata nulla e senza effetto nell'ambito giurisdizionale di detta corte o detto tribunale, mentre tutte le altre disposizioni del presente Contratto continueranno ad avere piena validità ed effetto.

8. DICHIARAZIONE DI ACCETTAZIONE: L'APERTURA DEL PRESENTE PACCHETTO SIGILLATO COSTITUISCE IL RICONOSCIMENTO IMPLICITO DI AVER LETTO E COMPRESO IL PRESENTE CONTRATTO E DI AVERNE ACCETTATO I TERMINI E LE DISPOSIZIONI. L'UTENTE RICONOSCE ALTRESÌ CHE IL PRESENTE CONTRATTO RAPPRESENTA IL COMPLETO ED ESCLUSIVO ATTO DI INTESA TRA CANON E L'UTENTE MEDESIMO RELATIVAMENTE ALL'OGGETTO DEL CONTRATTO E CHE IL PRESENTE CONTRATTO SOSTITUISCE QUALSIVOGLIA PROPOSTA OD ACCORDO PRECEDENTE, SIA SCRITTO CHE ORALE, E OUALSIVOGLIA ALTRA COMUNICAZIONE INTERCORSA TRA CANON E L'UTENTE IN MERITO ALL'OGGETTO DEL CONTRATTO, NESSUN EMENDAMENTO AL PRESENTE CONTRATTO SARÀ RITENUTO VALIDO. SE NON SOTTOSCRITTO DA UN RAPPRESENTANTE DI CANON DEBITAMENTE AUTORIZZATO.

Se si desidera avere dei chiarimenti in merito al presente Contratto o si desidera contattare Canon per qualunque altra ragione, scrivere alla consociata locale.

LEES DEZE INFORMATIE ZORGVULDIG ALVORENS DE VERZEGELDE VERPAKKING VAN DE DISK TE OPENEN

LICENTIEOVEREENKOMST VOOR SOFTWARE VAN CANON

BELANGRIJK - LEES DEZE OVEREENKOMST ALVORENS DE VERZEGELDE VERPAKKING VAN DE DISK TE OPENEN! DOOR DE VERZEGELDE VERPAKKING VAN DE DISK TE OPENEN WORDT U GEACHT AKKOORD TE GAAN MET DEZE OVEREENKOMST.

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Als tegenprestatie voor het recht de SOFTWARE te mogen gebruiken, verklaart u zich aan de voorwaarden van deze overeenkomst te zullen houden.

1. LICENTIEVERLENING: Canon verleent u het persoonlijke, niet-exclusieve recht de SOFTWARE op slechts één enkele computer te gebruiken. Het is u toegestaan de SOFTWARE fysiek over te brengen van de ene computer naar een andere computer op voorwaarde dat de SOFTWARE nooit op meer dan één computer tegelijk gebruikt wordt.

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Document Scanner DR-7080C INSTRUCTIONS



Please read this manual before operating this unit. After you finish reading this manual, store it in a safe place for future reference.

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INTRODUCTION

Thank you for purchasing the Canon Document Scanner DR-7080C. Please read this manual thoroughly before operating the machine in order to familiarize yourself with its capabilities, and to make the most of its many functions. After reading this manual, store it in a safe place for future reference.

Conventions

This manual uses the following symbols and indications. Before you start reading this manual, read the following and familiarize yourself with their meanings.

> Warnings are provided for your safety and contain extremely important information. Failure to observe the instructions provided in a warning could result in death or serious injury to yourself or your coworkers.



Important

WARNING

These important notes contain important information on procedures that must be followed or actions that must be avoided. Failure to observe a request could result in damage to the equipment or a malfunction.

Note

Notes provide additional tips or advice that can save you time and effort in using the scanner.



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Safety Precautions

Safe Operation

When you are working around the scanner, follow these precautions to avoid the hazards of fire and electrical shock:



- Never install and operate the scanner near flammable substances such as alcohol, paint thinner, benzene, or any other type of volatile solution.
- Never damage or modify the power cord, and never place heavy objects on the power cord.
- Always make sure that your hands are dry when you are handling the power cord or plug. Never grasp the plug when your hands are wet.
- Never plug the scanner into a multiplug power strip.
- Never bundle, wrap, or tie the power cord around itself or another object. Connect the plug securely to the power source.
- Use only the power cord and plug provided with the scanner.
- Never attempt to disassemble or modify the scanner.
- Never use flammable aerosol products near the scanner.
- Before you clean the scanner, turn OFF the power and disconnect the power cord from the power outlet.
- To clean the scanner exterior, use a firmly wrung cloth moistened slightly with water or mild detergent. Never use any type of volatile solution such as alcohol, benzene, or paint thinner.
- If you hear a strange sound, detect smoke or abnormal heat, sense vibration, or smell odd odors around the scanner, turn OFF the power immediately and disconnect the power cord from the power outlet. Call for service immediately.
- Handle the scanner with care. Avoid shocks and vibrations to the scanner caused by reckless handling. If you suspect the scanner has been accidentally damaged, turn OFF the power immediately and disconnect the power cord from the power outlet. Call for service immediately.
- Before you move the scanner, always turn OFF the power and disconnect the power cord from the power outlet.
- The scanner weighs 33.6 kg. Two people must carry the scanner. You may drop the scanner, or pinch your fingers if you attempt to carry it by yourself.
- Notice to Cardiac Pacemaker Users

This product generates a weak magnetic field. If you use a cardiac pacemaker, move away from product in the event that you notice any unusual symptoms. Also, please consult a cardiologist.



■ To avoid damage to the scanner, never place the scanner on an unstable or vibrating surface. The scanner may tip or fall over, and cause an injury.

- To avoid overheating and causing a fire, never block the air vents on the rear and side of the scanner.
- Keep all liquids, beverages, or any type of liquid, and clips, staples, necklaces, or other metal objects away from the scanner. If you accidentally spill liquid or drop a metal object into the scanner, turn OFF the power immediately and disconnect the power cord from the power outlet. Call for service immediately.
- Never install the scanner in humid or dusty locations. Doing so might cause a fire or electrical shock.
- Never place heavy objects on top of the scanner. Such objects may tip or fall over, and cause an injury.
- When you remove the power cord, grip it by the plug head. Never attempt to disconnect the power cord from the power outlet by pulling on the power cord. Doing so might expose or break the core leads, damage the power cord, and cause a fire or electrical shock.
- Keep the area around the power outlet clear of all obstacles so you can disconnect the power cord easily at all times.
- Never spill water or any type of volatile solution (alcohol, benzene, paint thinner) into the scanner. Doing so might cause a fire or electrical shock.
- When the scanner is not being used for a long time, disconnect the power cord from the power outlet.
- Avoid wearing loose fitting clothing, dangling jewelry, long ties, or even long hair that could become entangled with moving parts, especially the rollers that feed the scanner. If such objects become entangled, immediately disconnect the power plug from the power outlet to stop the scanner.
- Be very careful when you are loading a document or removing a paper jam. You may be injured unexpectedly. For example, the paper edges may cut your fingers.
- Do not open the feeder cover while the scanner is operating. Doing so might result in a malfunction or injury.
- Do not directly touch the pins and contacts on the scanner connector with your hands. Doing so might result in a malfunction.
- Open the feeder carefully and slowly, taking care to avoid letting it fall over backwards. Failure to do so might result in a malfunction or personal injury.
- Close the feeder carefully and slowly, taking care to avoid pinching your hands. Failure to do so might result in a malfunction or personal injury.
- When scanning a thick book or similar item from the flatbed (platen glass), avoid pressing down hard on the feeder. Doing so might damage the glass and create the risk of a malfunction or personal injury.
- Never place any object other than documents to be scanned onto the scanner's flatbed (platen glass). Doing so might result in a malfunction or personal injury.

Installation Location



For operation, maintenance and ventilation, make sure that there is enough space around the scanner, as shown in the illustration above.

Avoid placing the scanner in the following places. Doing so may cause a malfunction and adversely affect the scanner or your computer.

- Places exposed to direct sunlight If installation in such places is unavoidable, provide a curtain or similar object to shade the scanner.
- Places subject to dust and fumes Dust and cigarette fumes adversely affect the components inside the scanner.
- Near running water, a heat source, water vapor, or in an area such as a laboratory exposed to ammonia gas, paint thinner, or other volatile chemicals.
- Places subject to vibration and strong shock
- Places subject to rapid changes in temperature or humidity Condensation occurring inside the scanner may impair scan image quality. Place the scanner in a room that is well within the following range:

Room temperature 15° C to 30° C (59° F to 86° F)

- Relative humidity 25% to 80% RH
- Near electronic equipment or heavy equipment that generates a strong magnetic field, such as a speaker, TV, or radio.

Power Supply

- Be sure to connect to an AC 220-240 V (50/60 Hz) power supply, according to your region's requirement.
- Ensure that the scanner is connected to an independent power outlet. Do not plug the scanner into an outlet shared with another device. If you use an extension cord, pay attention to the total amperage of the cord.
- If you are unsure of anything relating to the power supply, contact your service representative or the power company.
- Never place an object on top of the power cord or step on the power cord.
- Never bundle the power cord or wrap the cord around an object, such as a table leg.
- Do not tug the power cord. When you remove the power cord, grip it by the plug head.
- Keep the area around the power outlet free of obstacles.

Opening and Closing the Feeder

Open the feeder carefully and slowly, taking care to avoid letting the feeder fall over backwards.



Close the feeder carefully and slowly, taking care to avoid pinching your fingers.



Carrying

Take care when moving the scanner. Two people should hold the scanner firmly on opposite sides when lifting it.





- The scanner weighs 33.6 kg. Two people must carry the scanner. You may drop the scanner, or pinch your fingers if you attempt to carry it by yourself.
- When moving the scanner, be sure to turn OFF the power and remove any cables. If the cables are not removed before moving the scanner, you may damage the plugs or connectors by forcibly pulling them out.
- Notice to Cardiac Pacemaker Users

This product generates a weak magnetic field. If you use a cardiac pacemaker, move away from product in the event that you notice any unusual symptoms. Also, please consult a cardiologist.

Chapter 1

Getting Ready

This chapter describes the features of the scanner, what's in the box, and the names and functions of parts on the scanner.

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The DR-7080C is a desktop ADF/flatbed scanner for high-speed scanning of large volume documents. The following are the main features of the DR-7080C.

• Black and white, grayscale, and 24-bit color output

Support for black and white, grayscale, and 24-bit color output.

• High-speed scanning

The feeder supports scanning of A4/LTR-size documents at speeds up to 70 pages per minute.

• Duplex (two-side) scanning

When scanning both sides of document pages with the feeder, the front is scanned first. After that the page is turned over automatically and the back is scanned.

Flatbed scanning

Flatbed scanning is also supported for thin paper, paper that does not feed properly, magazines, bound documents, and other documents that cannot be scanned using the feeder.

• Large capacity, reliable feeding

- A large capacity paper feed tray allows loading of up to 100 A4/LTR-size document pages.
- The document size is detected and adjusted automatically, which eliminates the need for troublesome manual settings. Document pages of different sizes can be mixed together and loaded for a single scan operation.

Job Function^{*1}

To begin scanning, you need only to select a job with the [Job] keys of the scanner, and then press the [Start] key. Scanned images can be sent directly to a specific folder, printer, or e-mail address. (See "Job Function," on p. 20.)

Skew correction

This feature automatically detects when a document page is fed unevenly, and automatically straightens it.

• Text Orientation Recognition

The DR-7080C can detect the text orientation in scanned images and rotate the images in 90° increments to normalize text orientation.

• High durability

A highly durable design provides scanning for up to 4 million scans.

• Advanced Text Enhancement

This feature eliminates the background surrounding the text. This makes it easier to read the text on documents that are printed on a light colored background, or are written in pencil, or if the text is a color other than black.

• Dropout color

This feature lets you skip ("drop out") a specific color when scanning.

• Stamping (option)

This feature automatically marks the trailing edge of a scanned document page with a stamp to indicate that is has been scanned. (See "Optional Products," on p. 21.)

^{*1} This function is not supported on a computer that is running Windows NT.



Make sure you perform the following procedures before using the DR-7080C for the first time.

- Unpacking
- Removing the Transportation Screw
- Attaching the Ferrite Core

Unpacking

Make sure that you have everything. Check every item you have removed from the box. If any items are missing, contact your sales representative.



DR-7080C



Quick Reference



Power Cord^{*}



Instructions (this manual)



Setup Disc



Ferrite Core

* The power cord varies according to country of purchase.

Removing the Transportation Screw

A transportation screw is installed at the factory to lock the scanner's optical unit in place and protect it against damage caused by vibration and other forces during shipment. You must remove the transportation screw before trying to use the scanner.





 If the transportation screw is not removed, then when the scanner is turned ON "Please wait" appears on the display panel and remains there unchanged. Turn OFF the scanner and remove the transportation screw.

Ferrite Core

When connecting to another SCSI device sequentially for use after connecting a SCSI cable to the scanner, attach the supplied ferrite core to the SCSI cable. (See "Attaching the Ferrite Core," on p. 26.)



When connecting to another SCSI device sequentially after connecting a SCSI cable to the scanner, be sure to attach the ferrite core to the SCSI cable. If you use the scanner without attaching the ferrite core, radio wave interference may occur.



This section describes the names and functions of each part. Before you connect the DR-7080C, take a few minutes to familiarize yourself with the main parts.

Feeder



1) Feeder Cover

Open this cover to clear document jams and clean the rollers. (See pp. 77, 90.)

2 Opening Lever

Operate this release lever when opening or closing the feeder cover.

③ Document Set Indicator

This indicator lights when there is a document in the document feeder tray. (See p. 49.)

(4) Slide Guide

Adjust this guide to the marking on the document size label that indicates the applicable document size. (See p. 48.)

5 Document Feeder Tray

Load documents to be scanned here. (See p. 49.)

6 Document Eject Tray

Scanned documents are ejected here. Raise the document feeder tray to remove ejected documents. (See p. 50.)

⑦ Operation Panel

(See p. 19.)

Flatbed



(8) Pressure Board (Black)

This board presses the document page against the glass during scanning. (See p. 89.)

(9) Flatbed (Platen Glass)

When placing the document onto the platen glass, align it with the arrow in the upper left corner of the glass. (See p. 51.)

10 Opening Sensor

This sensor detects whether the feeder is open or closed. (See p. 51.)

1 Power Switch

(See p. 31.)

12 Air Vents

Rear



12 Air Vents

13 USB Connector

Connect a Hi-Speed USB 2.0 compatible USB cable here. (See p. 30.)

14 DIP Switches

Configure these switches to specify the SCSI ID or terminator ON or OFF. (See p. 26.)

15 SCSI Connectors

Connect a SCSI cable (50-pin half pitch, pin type) here. (See p. 26.)

16 Power Cord Connector

Connect the provided power cord here.



- Never touch the cables on the left side of the back panel. Disconnection of cables can cause a malfunction of the scanner.
- Take care to ensure that the vents never become blocked. Blocked vents can lead to heat build-up inside the scanner and create the risk of fire.
Operation Panel



1 Menu Key

Press this key to cycle the display through the various user modes, as shown below. (See "About the User Modes," on p. 68.)



2 Set Keys

Use these keys to change the setting of the currently displayed user mode. (See p. 72.)

3 Enter Key

Press this key to register the currently displayed user mode setting. (See p. 72.)

(4) Display Panel

Displays the number of scanned pages, error codes, etc.

5 Job Keys

Use these keys to scroll through registered job numbers (01 through 99) on the display panel. (See "Job Function," on p. 20.) Pressing the [Start] key while a job number is displayed starts scanning of the document and forwards the scanned image to the registered job.

6 New File Key

This key is active for applications that support batch separation. This key lights when pressed or in accordance with the application's batch separation settings. Scanning the next document while this key is lit causes the scanned image to be stored in a different file or folder than the previously scanned document.

7 Start Key

The Start key lamp lights when the key is enabled by the Count Only Mode or the application's settings. Pressing the [Start] key while its lamp is lit causes scanning to start.

(8) Stop Key

Pressing this key stops an ongoing scanning operation. This key is also used to cancel a mode setting and clear an error indicator from the counter display area.



The DR-7080C comes with a "Job function" that makes it possible to perform scanning without starting a scanning application. The Job function lets you use the operation panel to perform scanning and forward image files to destinations in accordance with the currently selected job.

The Job function has the capabilities listed below, and jobs can be registered using Job Registration Tool. (See "How to Start the Job Registration Tool," on p. 41.)

- Images can be saved to a shared folder or other specified folder (Scan to PC).
- Images can be sent as e-mail attachments (Scan to Mail).
- Images can be output to a specified printer (Scan to Printer).

For details about using the Job function, see "Using the Job Mode for Scanning," on page 59.



Note

The Job function is not supported on a computer that is running Windows NT.

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The following options can be purchased and used on the DR-7080C, if they are necessary. Contact your sales representative.

Stamp Unit

The stamp unit affixes a "scanned" stamp on document pages that are scanned using the feeder. The application can be used to turn stamping on or off. The stamp is a circle that has a diameter of about 3 mm, with a cross in the center. It is stamped on the scanned side of the document page, about 7 mm from the trailing edge of the document page.





- The stamp pattern is fixed and cannot be changed.
- In the case of duplex scanning, both sides of the document page are stamped.
- The cross in the center of the stamp rotates during stamping.

Chapter 2

Connecting to a Computer

This chapter describes how to connect the scanner to a computer, and includes information about what you need to do to get Windows to recognize the scanner.

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2.1 Checking Your Operating Environment

Your computer system must meet the following conditions to use the DR-7080C.

- IBM PC/AT or compatible machines that meet the following specifications:
 - Intel Celeron 733 MHz or faster
 - 256 MB main memory or more (recommended)
 - 100 MB or more of free space on the hard disk
- SCSI card that is compatible with this scanner or Hi-Speed USB 2.0 interface card (See "Connecting to a Computer," on p. 25.)
- Monitor that can display at a resolution of 1024 x 768 (XGA) or greater is recommended.
- One of the following operating systems: For SCSI
 - Microsoft Windows 98SE
 - Microsoft Windows Me
 - Microsoft Windows NT 4.0 Workstation SP6
 - Microsoft Windows 2000 Professional SP4
 - Microsoft Windows XP SP1

For USB

- Microsoft Windows 98SE
- Microsoft Windows Me
- Microsoft Windows 2000 Professional SP4
- Microsoft Windows XP SP1

 Either an ISIS (compatible) or a TWAIN (compatible) application that operates on one of the operating systems noted above.

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Impo	rtant

- The DR-7080C does not support operation under Windows 95.
- The Job function is not supported on a computer that is running Windows NT. If you want to use the Job function, run the scanner with a computer running a supported operating system other than Windows NT.
- Use the latest USB 2.0 driver when using USB connections. Contact your sales representative.
- If the CPU, memory, SCSI card, or USB interface card does not meet the recommended specifications, the scanning speed may slow down or the time required to transfer data may increase.



There are two ways to connect the scanner to your computer, SCSI or USB. Use the method that is compatible with your computer system.

■ Do not turn OFF the scanner or remove any interface cables when an application is running.

- \blacksquare Do not connect both SCSI and USB interface cables at the same time.
- When connecting to another SCSI device sequentially after connecting a SCSI cable to the scanner, be sure to attach the ferrite core to the SCSI cable. If you use the scanner without attaching the ferrite core, radio wave interference may occur.
- Turn OFF the computer and the scanner before changing the cable format.

SCSI Connections

Connect the scanner to the computer.



To connect the scanner with a SCSI cable, you will need the following items that are not included in the package:

• SCSI card

Check that the SCSI card is installed on your computer. Use one of the recommended SCSI cards.

SCSI cable

The scanner's SCSI connector is a half-pitch 50-pin (pin type) connector. Check the shape of the connector on your computer's SCSI card or on the SCSI device connected to your computer, and prepare a SCSI cable that is compatible with the connector that can be connected to the scanner.

SCSI Cards

Be sure to use one of the recommended SCSI cards when connecting the scanner with a SCSI cable. The recommended SCSI cards are listed below.

Recommended SCSI cards

Manufacturer: Adaptec Product names: AHA-2930U, AHA-2940AU, ASC-19160, ASC-29160, APA-1480



Be sure to follow the installation procedure in your computer's operation manual when installing the SCSI card on your computer.

Connecting the SCSI Cable



The SCSI cable should only be as long as the rating for the SCSI card being used. If the SCSI cable is longer than the rated length, the scanner may not operate correctly.

Before you connect the SCSI cable, make sure that the scanner and the computer are turned OFF.

Do not connect both SCSI and USB interface cables at the same time.

Connect your computer to the scanner using the SCSI cable.

Two SCSI connectors are located on the rear of the scanner. Insert the SCSI cable from the computer into one of the connectors on the bottom of the scanner. To connect another SCSI device to the computer, insert the other SCSI cable into the vacant SCSI connector on the rear of the scanner, and connect the other end of the SCSI cable into the SCSI device in a daisy chain.



Attaching the Ferrite Core

When connecting to another SCSI device sequentially for use after connecting a SCSI cable to the scanner in a daisy chain, attach the supplied ferrite core at the specified location. (See "Location for attaching ferrite core," on p. 27.)



When connecting to another SCSI device sequentially after connecting a SCSI cable to the scanner, be sure to attach the ferrite core to the SCSI cable. If you use the scanner without attaching the ferrite core, radio wave interference may occur.

Location for attaching ferrite core

Attach the ferrite core to the SCSI cable connecting the scanner to the next SCSI device.



Clamp the ferrite core on the SCSI cable approximately 3 cm from the connector of the next SCSI device to be connected, closing it until you hear a clicking sound.



Setting the SCSI ID and Terminator

Set the SCSI ID and the terminator on the DIP switches located between the SCSI connectors and the USB connector.

Move the DIP switch up to turn it OFF and move it down to turn it ON.



	1		
SCSI ID	SW1	SW2	SW3
0	OFF	OFF	OFF
1	ON	OFF	OFF
2	OFF	ON	OFF
3	ON	ON	OFF
4	OFF	OFF	ON
5	ON	OFF	ON
6	OFF	ON	ON
7	ON	ON	ON

Set the SCSI ID referring to the table above.

Set unique SCSI IDs to any other built-in SCSI devices or SCSI devices connected to the computer.



• The SCSI ID default is set to 2.

 Assign SCSI ID numbers ranging from 0 to 7 for each SCSI device. Do not select 7 as this is normally assigned to the SCSI controller. If a SCSI hard disk is mounted, do not use 0 and 1. Normally 0 and 1 are assigned for hard disks.

Set the terminator on the last SCSI device on a daisy chain to ON.

<When only the scanner is connected to your computer, or when another SCSI device is connected on a daisy chain and the scanner is the last SCSI device on the end of the daisy chain>

Set the terminator switch on the scanner to ON.

In such a connection, be sure to set the terminator on all other SCSI devices to OFF.



<When another SCSI device is connected as the last device of the daisy chain>

Set the terminator switch on the scanner to OFF.

In such a connection, set the terminator on the SCSI device connected as the end device to ON.





When connecting to another SCSI device sequentially after connecting a SCSI cable to the scanner, be sure to attach the ferrite core to the SCSI cable. If you use the scanner without attaching the ferrite core, radio wave interference may occur.

Setting the SCSI Transfer Speed

When the scanner is hooked up with a SCSI cable, the scanner may not operate correctly depending on the length of the cable and the SCSI card being used. In this case, change the scanner's transfer speed in the user modes. (See "About the User Modes," on p. 70.)

USB Connections

Connect the scanner to the computer.



- To connect the scanner with a USB interface cable, you will need the following items that are not included in the package.
- USB interface cable
 Use an interface cable that supports Hi-Speed USB 2.0.
 USB interface card
 - Use an extended USB interface card that is compatible with Hi-Speed USB 2.0 and operationally tested by Canon.
- Turn the SCSI terminator on, even if you are using USB cables. If you use the scanner with the SCSI terminator turned OFF, the scanner might not operate correctly. (See "Setting the SCSI ID and Terminator," on p. 27.)

♦ USB 2.0 Interface Cards

Be sure to use one of the recommended USB 2.0 interface cards when connecting the scanner with a USB interface cable. The recommended USB 2.0 interface cards are listed below.

Recommended USB 2.0 interface cards

Manufacturer:	Adaptec
Product:	USB 2 Connect 2000LP (AUA-2000)
	USB 2 Connect 3100 (AUA-3100LP)
	USB 2 Connect 5100 (AUA-5100)
	USB 2 Connect for Notebooks (AUA-1420)
	· · · · · · · · · · · · · · · · · · ·



• Be sure to follow the installation procedure in your computer's operation manual when installing the USB 2.0 interface card on your computer.

- Use the most recent USB 2.0 driver provided by Adaptec or Microsoft.
- Windows NT operating system does not support USB. Use a SCSI cable to connect the scanner to computers with the Windows NT operating system.
- Use a USB hub that supports USB 2.0 if you need to use a USB hub.
- This scanner has passed the Hi-Speed USB 2.0 verification test. However, it may not function properly even when Hi-Speed USB 2.0 is built-in to a computer as standard.
- Scan speed may slow down when Hi-Speed USB 2.0 is not supported.

Connecting a USB Interface Cable



Do not connect both a SCSI cable and USB interface cable at the same time.



Connecting the Power Cord

Connect the power cord.

Be sure to use only the power cord provided with the scanner.





When connecting the power cord, follow these precautions. Failure to do so might cause a fire or electrical shock.

- Never grasp the plug when your hands are wet.
- Never plug the scanner into a multiplug power strip.
- Never bundle or tie the power cord around itself or another object. Connect the plug securely to the power source.
- Use only the power cord and plug provided with the scanner.
- Before you connect the power cord, be sure to turn OFF the power.
- Be sure to connect to an AC 220-240 V (50/60 Hz) power supply, according to your region's requirement.
- Do not plug the scanner into an outlet shared with another device. If you use an extension cord, pay attention to the total amperage of the cord.



Follow the procedures below to turn ON or OFF the scanner power.

Turning ON the Power



Be sure to turn ON the power of all connected SCSI devices before you turn ON the computer.

Turn ON the scanner.

The illustration below shows the location of the power switch.





rightarrow Turning ON the scanner causes the display panel to appear as shown below.

R	е	а	d	У								
								0	0	0	0	0



If you hear a strange sound, detect smoke or abnormal heat, sense vibration, or smell odd odors around the scanner, turn OFF the power immediately and disconnect the power cord from the power outlet. Contact your service representative immediately. Failure to do so might cause a fire.

2 Turn ON the computer.



You will need to install the scanner device driver when you start Windows the first time after you connect the scanner to your computer. (See "Recognizing the Scanner," on p. 32.)

Recognizing the Scanner

If you are using Windows 98/Me or Windows 2000/XP, then the first time that you turn ON your computer after connecting this scanner to your computer, Windows Plug and Play function automatically displays a screen prompting you to install the scanner driver. Follow the instructions on the screen to proceed with the installation. (The name of the installation dialog varies depending on the Windows operating system.)

If you are using Windows 98SE, the [Add New Hardware Wizard] dialog box appears.

- 1. Click the [Next] button.
- 2. Select [Search for the best driver for your device. (Recommended).], and then click the [Next] button.
- 3. Insert the setup disc into the computer's CD-ROM drive.
- 4. Select [Specify a location], enter "D:\INF" (assuming that "D" is assigned to your CD-ROM drive), and then click the [Next] button.
- 5. Click the [Next] button.
- 6. Click the [Finish] button.
- If you are using Windows Me, the [Add New Hardware Wizard] dialog box appears.
 - 1. Select [Specify the location of the driver (Advanced)], and then click the [Next] button.
 - 2. Insert the setup disc into the computer's CD-ROM drive.
 - 3. Select [Search for the best driver for your device. (Recommended).], and then select [Specify a location]. Enter "D:\INF" (assuming that "D" is assigned to your CD-ROM drive), and then click the [Next] button.
 - 4. Click the [Next] button.
 - 5. Click the [Finish] button.

If you are using Windows 2000 Professional, the [Found New Hardware Wizard] dialog box appears.

- 1. Click the [Next] button to proceed to the [Install Hardware Device Drivers] screen.
- 2. Select [Search for a suitable driver for my device (recommended)], and then click the [Next] button to proceed to the [Locate Driver Files] screen.
- 3. Select [Specify a location], and then click the [Next] button.
- 4. Insert the setup disc into the computer's CD-ROM drive.
- 5. Enter "D:\INF" (assuming that "D" is assigned to your CD-ROM drive), and then click the [OK] button.
- 6. In the [Driver Files Search Results] screen, click the [Next] button.
- 7. If the message "Digital Signature Not Found" appears, click [Yes] to continue installation.
- 8. On the [Completing the Found New Hardware Wizard] screen, click the [Finish] button.

• If you are using Windows XP, the [Found New Hardware Wizard] dialog box appears.

- 1. Insert the setup disc into the computer's CD-ROM drive.
- 2. In the [Welcome to the Found New Hardware Wizard] screen, select [Install from a list or specific location (Advanced)], and then click the [Next] button.
- 3. Select [Search for the best driver in these locations], and then clear the [Search removable media (floppy, CD-ROM...)] check box. Select [Include this location in the search], enter "D:\INF" (assuming that "D" is assigned to your CD-ROM drive), and then click the [Next] button.
- 4. Click the [Continue Anyway] button in the [Hardware Installation] dialog box.
- 5. Click the [Finish] button in the [Completing the Found New Hardware Wizard] screen.



- Although a message appears in the [Hardware Installation] dialog box indicating that the driver "has not passed Windows logo testing," this is not a problem.
- The DR-7080C will be registered as "CANON DR-7080C SCSI" or "CANON DR-7080C USB" in the "Imaging Device" directory.
- Note that the SCSI connection device name is different from the USB connection device name. If you change from one type of connection to another, Windows will have to recognize the scanner again. The first time you turn ON the computer after changing the connection method, perform the device driver installation procedure from the beginning again.



If you cancel device driver installation part way through, you will not be able to use the Job function. (See "Job Function," on p. 20.) Always perform the entire device driver installation procedure all the way to the end.

Turning OFF the Power



If you are using a SCSI connection, turn OFF the computer first, before turning OFF the scanner.





 $\mathbf{2}$ Turn OFF the scanner.





■ Wait at least 10 seconds before turning ON the scanner again. For your safety, disconnect the power plug from the power outlet if you are not using the scanner for a long time.

Chapter 3

Using the Software

This chapter describes how to install and use the ISIS/TWAIN driver, CapturePerfect, and Job Registration Tool that come packaged with the scanner.

- 3.2 Installing the Software 37
- How to Display the ISIS/TWAIN How to Start CapturePerfect 40 How to Start the Job Registration Tool 41
- 3.4 Uninstalling the Software 43



The following software applications are provided on the setup disc that is packaged with the scanner. Be sure to open and read the Readme.txt file on the setup disc before installing the software.

ISIS/TWAIN driver

This driver allows the scanner to use ISIS (Image and Scanner Interface Specification) compatible applications or TWAIN (Tool Without An Interesting Name) compatible applications to scan documents. Be sure to install the ISIS/ TWAIN driver to use this scanner.

CapturePerfect

This is a TWAIN compatible application for scanning images. Install it if necessary.

Job Registration Tool

Job Registration Tool is a TWAIN-compliant application for registering the jobs used by the Job function. Note, however, that the Job function is not supported on a computer that is running Windows NT. If you want to use the Job function, run the scanner with a computer running a supported operating system other than Windows NT. (See "Job Function," on p. 20.)



• CapturePerfect and the Job Registration Tool use the TWAIN Driver. Be sure to install the ISIS/TWAIN Driver before you install CapturePerfect or the Job Registration Tool.

- The ISIS/TWAIN driver provided with the scanner does not necessarily operate all ISIS compatible applications or all TWAIN compatible applications. Contact your sales representative for further information.
- Some functions mentioned in this manual may not operate in some applications.



Installing the Software

This section describes how to install the ISIS/TWAIN driver, CapturePerfect, and Job Registration Tool that are used when operating the scanner. CapturePerfect and the Job Registration Tool use the TWAIN Driver. Install the software in the order of the ISIS/TWAIN Driver, CapturePerfect, and then the Job

Registration Tool.



- The Job function is not supported on a computer that is running Windows NT. If you
 want to use the Job function, run the scanner with a computer running a supported
 operating system other than Windows NT.
- If another ISIS compatible driver is already installed on the computer, be sure to make a backup of the following file. The content of this file may be overwritten when the ISIS/TWAIN driver is installed.

C:\Windows\PixTran*.*

C:\Windows\System\pix*.dll

• The names of the "\Windows" and "\Windows\System" folders are different, depending on which Windows operating system you are using. The names of the above folders are representative and should be replaced by the name of the folder used in your operating system.

Turn ON your computer and start Windows.



Be sure to log on as an administrator if your system is Windows NT 4.0 Workstation, Windows 2000 Professional, or Windows XP.

2 Insert the setup disc into the CD-ROM drive.

This manual assumes that "D" is assigned to your CD-ROM drive.

3 Click the [Start] button, and then select [Run].

The screen depends on which Windows operating system you are using.



4 Enter "D:****\setup.exe" in the [Open] field, and then click [OK].



 In this example, the CD-ROM drive name is D:.
 ***** stands for the name of the folder where you will install the applicable software. ISIS/TWAIN Driver: D:\Driver\setup.exe CapturePerfect: D:\CapturePerfect\setup.exe Job Registration Tool: D:\JobTool\setup.exe

5 This starts the installer. Follow the instructions that appear on your computer screen to complete the installation.

6 When the installation completes, restart your computer.

Note



This section describes how to use CapturePerfect and Job Registration Tool for scanning.

Read the "ISIS/TWAIN Driver HELP" for information on using the ISIS/TWAIN driver.

How to Display the ISIS/TWAIN Driver Help File

The explanation on how to use the ISIS/TWAIN driver is in the ISIS/TWAIN driver help file. To view the help file, click the [Start] button, and then click [Programs] - [Canon DR-7080C] - [Canon DR-7080C Help].



How to Start CapturePerfect

This section describes the procedure to start and exit CapturePerfect. See [Help] in CapturePerfect for information on how to use CapturePerfect.

Click the [Start] button, and then click [Programs] - [CapturePerfect 2.0].

Click [All Programs] - [CapturePerfect 2.0] if your OS is Windows XP.



2 This starts CapturePerfect.





The basic operation of CapturePerfect is noted in the CapturePerfect help file. To view the explanation, select [Help] from the [Help] menu on the menu bar in CapturePerfect.

3 Select [Exit] from the [File] menu.



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How to Start the Job Registration Tool

This section describes the procedure to start and end the Job Registration Tool. See [Help] in the Job Registration Tool for information on how to use the Job Registration Tool. Alternatively, for information on scanning procedures using the Job function, see "Using the Job Mode for Scanning," on p. 59.



If you are using Windows 2000 or Windows XP, be sure to log on as an Administrator.
The Job function is not supported on a computer that is running Windows NT. If you want to use the Job function, run the scanner with a computer running a supported operating system other than Windows NT.

Click the [Start] button, and then click [Programs] - [Canon DR-7080C] - [Job Registration Tool].

In the case of Windows XP, click [All Programs] - [DR-7080C] -[Job Registration Tool].



2 This starts Job Registration Tool.

00 113	ι				
No.	Job title			Function	
01					
02					
03					
05					
00					
07					
08					
09					
10					
	New/F	diting	Сори	- 1	Dielete
	<u>N</u> ew/Er	diting	<u>C</u> opy		<u>D</u> elete
	<u>N</u> ew/E	diting	Copy		<u>D</u> elete



- See the Job Registration Tool help file for information about how to use the Job Registration Tool. To view the help file, click the [Help] button.
- The last page of this manual is "Job Title Record." Use it to record the titles of jobs that you register with the Job Registration Tool.



4 Uninstalling the Software

This section explains how to uninstall the software.



- Be sure to log on as an administrator if your system is Windows NT 4.0 Workstation, Windows 2000 Professional, or Windows XP.
- The dialogs and button names in Windows XP are different from those used in the explanations in this manual. Refer to the Windows XP "Help and Support Center" to uninstall the software.

Click the [Start] button, and then click [Settings] - [Control Panel].





The [Add/Remove Programs Properties] dialog box appears.

3 From the list in the dialog box, select the name of the application you want to remove, and then click the [Add/Remove] button.

Add/Remo	ve Progra	ns Propertie	s		? ×
Install/Uni	nstall Wind	dows Setup 9	Startup Disk	1	
Þ	To install a drive, click	a new program : Install.	from a floppy	disk or CD-	ROM
			[<u>I</u> nstall.	
8	<u>T</u> he followi Windows, componen Add/Remo	ing software ca To remove a p ts, select it from ove.	an be automa rogram or to n the list and	atically remo modify its in I click	ved by stalled
Canon I Capture DR-708	DR-7080C D Perfect 2.0 0C Job Tool	river			
				Add/ <u>R</u> emo	ove
		OK	Cance	el 📃	Apply

4 This displays a [Confirm File Deletion] dialog box for the application you are removing.



If you selected "Canon DR-7080C Driver," the above dialog box appears.

5 Click the [Yes] button, and the uninstaller starts.

Follow the instructions on the screen to finish uninstalling the software.

Chapter 4

Using the Scanner

This chapter describes precautions regarding documents that can be handled on this scanner and scanning operations.

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This section describes the various types of documents that can be scanned with the feeder.



Handle documents with care. Improper handling of paper can cause paper cuts or other personal injury.

Types of Documents

The following are the dimensions of the documents that can be fed by the feeder: Width: 139.7 mm to 304.8 mm Length: 128 mm to 432 mm (Normal Mode) 128 mm to 630 mm (Long Document Mode) 128 mm to 540 mm (Long Document Mode/Color 600 dpi Mode) **Document Thickness** Black-and-white Documents Simplex: 0.06 mm to 0.15 mm Duplex: 0.07 mm to 0.15 mm Black-and-white/Color Documents Mixed 0.07 mm to 0.15 mm **Color Documents** 0.08 mm to 0.15 mm Document Weight Black-and-white Documents Simplex: 42 to 128 g/m² 50 to 128 g/m² Duplex: Black-and-white/Color Documents Mixed 50 to 128 g/m² **Color Documents** 64 to 128 g/m²

Follow these guidelines when you prepare a document for scanning:

- When scanning long documents, turn the Long Document Mode "ON" in the user mode. (See "About the User Modes," on p. 70)
- Before scanning documents that contain pasted artwork, make sure that the ink or paste on the pages is thoroughly dry. If the documents are scanned with the ink or paste still wet, the scanner may malfunction.
- If you scan a document written in pencil, the letters may not scan properly or the pencil may rub off onto the rollers and stain subsequent documents. Before you scan this kind of document, make a copy and then scan the copy. After scanning a document written in pencil or some other soft writing material, be sure to clean the scanning rollers. (See "Cleaning the Feeder," on p. 94.)
- If you scan thin paper in the Duplex mode, the ink printed on the back side may be scanned. In this case, adjust the scanning density.

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- If you scan documents with a rough surface, friction between the documents may cause a paper jam. In this case, select [Flatbed], and then scan the documents one page at a time.
- When you scan a batch of NCR documents, make sure that they are not stuck together. If a jam occurs, change the scanning side setting to "Flatbed," and then scan the document one page at a time.
- To avoid paper jams, damage to documents, and a scanner malfunction, do not feed the following types of paper. For such documents, scan one page at a time from the flatbed (platen glass).





- Note that mixing documents of different thicknesses and sizes may cause a malfunction during feeding.
- Documents containing text or pictures within 5 mm of its edges or documents with a color background may cause erroneous skew detection or automatic size detection.

Feeder Capacity

Note the following rules when loading a document into the feeder.

- Make sure the top of the document stack is not higher than the load limitation mark. Overloading the feeder can cause jamming.
- The feeder is designed to hold approximately 100 sheets of A4/LTR-size standard copy paper (80 g/m²).





This section describes how to load documents into the feeder and how to position a document page on the flatbed (platen glass) for scanning.



Handle documents with care. Improper handling of paper can cause paper cuts or other personal injury.

Loading a Document into the Feeder

Perform the following steps to load the pages of a document into the feeder for scanning.

Adjust each slide guide so its pointer is aligned with the corresponding paper size on the document size label.





Use both hands to adjust both the left and right slide guides. Adjusting only one slide guide can lead to a malfunction.

2 Align the edges of the document stack on a flat surface, and then load the stack into the feeder with the scanning side facing upwards.

Insert the stack into the feeder as far as it will go, until the document set indicator lights.



Document Set Indicator



- Make sure the top of the document stack is not higher than the load limitation mark.
 Overloading the feeder can cause jamming.
- The feeder is designed to hold approximately 100 sheets of A4/LTR-size standard copy paper (80g/m²).



• When scanning NCR paper that is A3/11" x 17" or other large sizes, as well as paper that is very thin, the document may occasionally get caught in the paper eject mechanism. In this case, place some paper (auxiliary paper) in the document eject tray before scanning the document.



4 After scanning is complete, lift the document feeder tray, and then remove the document from the document eject tray.





- Leaving a document in the document eject tray and scanning another document can cause jamming.
- Raise the document feeder tray only as much as you need to remove the ejected document pages. Trying to forcibly raise the document feeder tray can cause a malfunction.

Positioning a Document on the Flatbed (Platen Glass)

Use the following procedure to scan on the flatbed (platen glass) when scanning a book, thick document, very thin document, an OHP (Overhead Transparency) transparency, or any other document that cannot be scanned using the feeder.

Raise the feeder.



Important

1

- Lower the feeder slowly, taking care to avoid pinching your fingers. Failure to do so might result in personal injury.
- When scanning on the flatbed (platen glass), raise the feeder at least 300 mm until the opening sensor unit is disengaged.



2 Place the document onto the flatbed (platen glass) with the scanning side facing downwards.

With the scanning side of the document facing downwards, align its corner with the arrow mark in the upper left corner of the flatbed (platen glass).





 ${\bf 3}$ Slowly and carefully lower the feeder back down.





Lower the feeder slowly, taking care to avoid pinching your fingers. Failure to do so might result in personal injury.

When scanning a thick book or similar item on the flatbed (platen glass), avoid pressing down hard on the feeder. Doing so might damage the glass and create the risk of malfunction or personal injury.

4 Raise the feeder and remove the document from the flatbed (platen glass).





- Raise the feeder carefully and slowly, taking care to avoid letting the feeder fall over backwards.
- Leave the feeder raised when scanning thick documents like books, or operate the feeder as shown in the procedure below.
- 1. Raise the feeder.
- 2. While pressing on the bottom of the feeder ①, pull the feeder down and forward ②.





3. Set the thick document or book on the flatbed (platen glass) and hold the feeder lightly while scanning.



Book or Thick Document

4. To return the feeder to its original position, raise it all the way (1), then close it carefully and slowly. (2)





This section describes the various different document feeding modes that are available, and the basic steps to use each mode for scanning.

- Avoid wearing loose fitting clothing, dangling jewelry, long ties, or even long hair that could become entangled with moving parts, especially the rollers that feed the paper. If such objects become entangled, immediately disconnect the power plug from the power outlet to stop the scanner.
- Check the stack and remove all clips, staples, pins, or any other type of metal or plastic fastener. They may damage the document, cause a paper jam, or scanner malfunction.

Scan Procedure

The ISIS/TWAIN driver "Feeding Option" setting allows you to select from among the three feeding modes described below. The procedure you should use depends on the currently selected feeding mode.

• Standard Feeding (See p. 55.)

With this mode, you start and stop scanning from an application on your computer. After placing the document onto the scanner, instruct the scanner from your computer to start scanning.

• Panel Feeding (See p. 56.)

Panel feeding comes in handy when using the feeder for continuous scanning, for scanning page-by-page from a book, etc. After placing the document page onto the scanner, press the scanner's [Start] key to start scanning. When scanning is complete, place the next document page onto the scanner, and then press the [Start] key again.

• Automatic Feeding (See p. 57.)

Use this mode for scanning a stack of document pages with the feeder. The scanner will start scanning automatically when it detects a document in the document feeder tray. Scanning stops when the document feeder tray is empty. Loading the next document into the document feeder tray restarts scanning.
Standard Feeding

To use the standard feeding mode, instruct the scanner to start from the application.

Select [Standard Feeding] in [Feeding Option] on the ISIS/TWAIN driver's settings screen.





See "Placing Documents onto the Scanner," on page 48 for information about placing documents onto the scanner.

3 From the application you are using, execute the required command to start scanning.

rightarrow This starts scanning.

4 When scanning of the document is complete, the application goes into the Ready Mode.



If paper feeding stops during scanning due to a system error or paper jam, make sure that the last page of the document was recorded properly before continuing to scan.

$\mathbf{5}$ If you want to scan another document, place it onto the scanner, and then execute the required command from the application to resume scanning. To finish scanning, execute the required command from the application.



If you are using the feeder for scanning, be sure to remove ejected document pages from the document eject tray before scanning another document. Leaving a document in the document eject tray and scanning another document can cause a paper jam.

Panel Feeding

With panel feeding, you execute the scan command from your application, and then use the scanner's [Start] and [Stop] keys to control the scanning operation.

Select [Panel-Feeding] in [Feeding Option] on the ISIS/TWAIN driver's settings screen.

$\mathbf 2$ From the application you are using, execute the required command to start scanning.

This causes the [Start] key lamp to light green.



3 Place the document onto the scanner.





See "Placing Documents onto the Scanner," on page 48 for information about placing documents onto the scanner.

4 Press the [Start] key.

${f 5}$ When scanning of the document is complete, the scanner goes into the Ready Mode.

Note

If paper feeding stops during scanning due to a system error or paper jam, make sure that the last page of the document was recorded properly before continuing to scan.

6 If you want to scan another document, place it onto the scanner, and then press the [Start] key again to resume scanning. To finish scanning, press the [Stop] key.



If you are using the feeder for scanning, be sure to remove ejected document pages from the document eject tray before scanning another document. Leaving a document in the document eject tray and scanning another document can cause a paper jam.

Automatic Feeding

Automatic feeding can be used when feeding a document from the feeder. After you execute the scan start command from the application, the scanner starts scanning automatically whenever it detects a document loaded into the feeder.

Select [Automatic Feeding] in [Feeding Option] on the ISIS/TWAIN driver's settings screen.



 $\mathbf{2}$ From your application, execute the command to start scanning.

This causes the [Start] key lamp to light green.

3 Load the document into the document feeder tray.





The scanner detects the documents, and scanning starts.



See "Placing Documents onto the Scanner," on page 48 for information about placing documents onto the scanner.

4 When scanning of the document is complete, the scanner goes into the Ready Mode.

5 Raise the document feeder tray to remove the ejected document pages.



Be sure to remove ejected document pages from the document eject tray before scanning another document. Leaving a document in the document eject tray and scanning another document can cause a paper jam.

6 Loading another document into the document feeder tray causes scanning to start automatically. After you finish scanning, press the [Stop] key.



Other Scanning Techniques

This section describes how to scan using the Job Mode and how to use the Count Only Mode to count the number of document pages. It also includes information about how to use the patch code sheet to perform automatic batch separation.

Using the Job Mode for Scanning



The Job function is not supported on a computer that is running Windows NT. If you want to use the Job function, run the scanner with a computer running a supported operating system other than Windows NT.

Set the Event function.

(See "Setting the Event Function," on p. 60.)

2 Use Job Registration Tool to register a job.

(See "How to Start the Job Registration Tool," on p. 41.)



See [Help] in the Job Registration Tool for information on how to register jobs with the Job Registration Tool.

3 Press the Job $[\blacktriangle]$ key to enter the Job Mode.

rightarrow This causes the job number screen to appear on the display panel.





4 Use the Job $[\blacktriangle]$ and $[\blacktriangledown]$ keys to select the number of the job (01 through 99) you want.

5 Place the document onto the scanner.





See "Placing Documents onto the Scanner," on page 48 for information about placing documents onto the scanner.

6 Press the [Start] key.

rightarrow The image file is forwarded in accordance with the selected job.

7 When scanning of the document is complete, press the [Stop] key to exit the Job Mode.



If you cannot get the Job Mode to operate correctly, see "Troubleshooting," on page 86.

Setting the Event Function

The Job function does not function when [DR7080C Job Tool] has not been specified in the scanner's Event function. Before using the Job function, set the scanner's event according to the following procedure.

Click the [Start] button, then click [Settings] - [Control Panel].



2 Double click [Scanners and Cameras].

🖾 Control Panel						_ 🗆 🗵
	Help					1
Back Forward Up	X Cut	Copy Paste	너) Undo	X Delete F	Properties View	- vs
Address R Control Panel						•
िन्न	Ł	Ś	1 0 0 0 0 0 0	122		A.
Control	Accessibility Options	Add New Hardware	Add/Remove Programs	Date/Time	Display	Fonts
Panel	ø.	(٩	Ø	<u> 10</u>
Scanners and Cameras	Game Controllers	Internet Options	Keyboard	Modems	Mouse	Multimedia
properties for a scanner or camera.	şĝ	B	R	\mathbb{R}	ų	,
Microsoft Home	Network	ODBC Data Sources (32bit)	Passwords	PixTools	Power Management	Printers
Technical Support			Ľ		.	22
	Regional Settings	Scanners and Cameras	Sounds	System	Telephony	Users
	Instal	, remove or chang	ge properties for	a sc 🗐 My (Computer	//

This displays the [Scanners and Cameras] dialog box.



The dialog box that appears differs according to what version of Windows is running on the computer.

3 Select [Canon DR-7080C SCSI], and then click [Properties].



4 Click the [Events] tab.



5 Specify [Job Start Button] in the [Scanner events] field.



6 Uncheck all the items in the [Send to this application] field except for [DR7080C Job Tool].





You cannot use the Job function if the [Disable device events] check box is checked.

8 Click the [OK] button.



Using the Count Only Mode

In the Count Only Mode, document pages are sent through the feeder in order to count them. The document is not scanned. You can perform Count Only Mode operations on the scanner, without using your computer.

Use the user modes to enter the scanner's Count Only Mode.

(See "How to Set the User Modes," on p. 72.)

С	0	u	n	t	0	n	Ι	У	М	0	d	е	
									0	0	0	0	0

rightarrow This causes the Start key lamp to light green.

2 Load the document into the feeder, and then press the [Start] key.



rightarrow This sends the pages of the document through the feeder and counts them.

3 After all of the document pages are fed, exit the Count Only Mode.

(See "How to Set the User Modes," on p. 72.)

To clear the page count from the display panel, hold down the [Stop] key for approximately two seconds.

Using Patch Code Sheets

Patch code sheets are sheets of paper on which a special pattern is printed so that files can be separated without stopping the scanning operation. The scanner can recognize the pattern on these sheets, which allows files to be separated.



- Refer to "ISIS/TWAIN Driver HELP" when using patch code sheets.
- Patch code sheets are enabled only when the application being used for scanning supports file separation.

Patch Code Sheets

Patch code sheets are PDF (portable document format) data of which there are four types: [PATCH II (A4)], [PATCH II (LTR)], [PATCH T (A4)], and [PATCH T (LTR)]. Click the [Start] button in Windows, and then click [Programs] – [Canon DR-7080C] – [PATCH X(XX)], and use the document that is printed.

Γ		*	Windows Update						
		240	<u>P</u> rograms	۲		Accessories StartI In	+		
		*	F <u>a</u> vorites	Þ	ē	Internet Explorer			
		\bigcirc	Documents	•	iii ii	MS-DOS Prompt			
			Callings		Gal.	Uutlook Express Windows Explorer			
			<u>5</u> ettings	ſ		Canon DR-7080C	Þ	۲	Canon DR-7080C Help
		R)	<u>F</u> ind	•	Ş	CapturePerfect 2.0		3	Job Registration Tool
	202	Ø	<u>H</u> elp					園	PATCH II (A4)
	MOD	244	<u>B</u> un				I	d	PATCH II (LTR) PATCH T (A4)
	Ĕ	B	Chud Davin				I.	囥	PATCH T (LTR)
E	1	<u></u>	Shut Down						
1	£	Start	265						



You need CapturePerfect or an application that can open PDF (portable document format) files.

Types of Patch Code Patterns

There are two patch code patterns as shown below. The result varies depending on the pattern.

PATCH T (FILE A)



When this sheet is recognized, the document following the sheet is saved to a separate file.

• PATCH II (FILE B)



When this sheet is recognized, the file is separated after this sheet. This sheet is saved as an image, even if the patch code recognition setting is set not to save this sheet as an image.

How to Use Patch Code Sheets

1 Print the patch code sheet on the following paper size:

- Print [PATCH II (A4)] and [PATCH T (A4)] on A4-size paper.
- Print [PATCH II (LTR)] and [PATCH T (LTR)] on letter size paper.



2 Place the patch code sheet on top of the documents that are to be saved to a separate file, and then scan the documents.



 $\boldsymbol{3}$ Set the scanning conditions, and then start scanning.

Chapter 5

User Modes

This chapter describes the user modes, which you can use to configure the scanner settings.

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	User Mode Functions	70
	How to Set the User Modes	72



You can configure the scanner settings with the user modes described below.

User Mode Functions

User mode functions are as follows:

• Count Only Mode

С	0	u	n	t		0	n	I	У		М	0	d	е	
				0	Ν			[0	F	F]			

ON: Count Only Mode (See "Using the Count Only Mode," on p. 63.) OFF: Normal Mode (default)

• Long Document Mode

L	0	n	g		D	0	с	u	m	е	n	t		
				0	Ν			Γ	0	F	F]		

- ON: Enables detection of documents up to 630 mm long for auto document size detection. (See "Documents," on p. 46.)
- OFF: Enables detection of documents up to 432 mm long for auto document size detection (default).



If you scan using Long Document Mode, the scanning speed may slow down.
If a document page is not aligned correctly when using the Long Document Mode, it might come into contact with the two sides of the feeder, which can damage the page. Take care to make sure that document pages are aligned correctly.

• Stand-by Mode

S	t	а	n	d	-	b	У	М	0	d	е		
			[0	Ν]		0	F	F			

ON: Scanner enters Stand-by Mode after 10 minutes of non-use (default). OFF: Scanner does not enter Stand-by Mode.

• Display Language Mode

J	a	р	a	n	е	s	е		(=	ホ	ン	*)
				0	Ν			Γ	0	F	F]		

ON: Japanese

OFF: English (default)

• Display Contrast Mode

D	i	s	р	I	а	У		С	0	n	t	r	a	s	t
			<	-	_	-	_		_	-	_	>			

Use the Set $[\blacktriangleleft]$ and $[\blacktriangleright]$ keys to move the pointer (\blacksquare) to the left for lighter contrast or to the right for darker contrast.

• Setting SCSI Transfer Speed

S	С	S	I	S	р	е	е	d					
			5			1	0		Γ	2	0]	

Set the maximum value for synchronous transfer speed for the SCSI interface. [5]: 5 Mbyte/sec

[10]: 10 Mbyte/sec (First SCSI)

[20]: 20 Mbyte/sec (Ultra SCSI) (default)

If the scanner does not operate correctly when the output speed is set to [20 Mbyte/sec], reduce the transfer speed to [10 Mbyte/sec] or [5 Mbyte/sec].



If you change the setting for the SCSI transfer speed, turn OFF the scanner, and then turn it ON.

How to Set the User Modes

Use the following procedure to configure user mode settings.

1 Press the [Menu] key to display the user mode screens.



C Use the [Menu] key to cycle through the user modes in the sequence shown below.



2 Use the Set [◀] and [▶] keys to change the currently displayed setting.

3 Press the [Enter] key to register the displayed setting.

4 To exit the user mode screens, press the [Stop] key.

Chapter 6

Troubleshooting

This chapter describes the trouble that may occur on the DR-7080C and how to correct it.

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When the Scanner Is Not Recognized

The following describes possible causes of your computer not recognizing the scanner. Remedy the problem by following the procedure for the respective cause.

SCSI Connections

Cause	The scanner is not correctly connected.
Remedy	Connect the SCSI cables to the scanner in the correct way.
Cause	The SCSI card is not correctly recognized.
Remedy	Correctly connect the SCSI card referring to the SCSI card manual. Also, check the following according to the OS that your computer is running on.
	<windows 98="" and="" me="" windows=""> Click [Start]-[Settings]-[Control Panel]-[System], and then open [Device Manager] and check if "SCSI Controller" has an "x" or "!" on it. If you can see one of these, then refer to the SCSI card's operator's manual to reset the SCSI card.</windows>
	<windows 4.0="" nt="" workstation=""> Click [Start]-[Settings]-[Control Panel], and then open [SCSI adapter] and check if the "SCSI card" is being recognized correctly. If it is not correctly recognized, then refer to the SCSI card's operator's manual to reset the SCSI card.</windows>
	<windows 2000="" professional=""> Click [Start]-[Settings]-[Control Panel]-[System]-[Hardware], and then open [Device Manager] and check if "SCSI controller" has an "x" or "!" on it. If you can see one of these, then refer to the SCSI card's operator's manual to reset the SCSI card.</windows>
	<windows xp=""> Click [Start]-[Control Panel]-[Performance and Maintenance]-[System]- [Hardware], and then open [Device Manager] and check if "SCSI controller" has an "x" or "!" on it. If you can see one of these, then refer to the SCSI card's operator's manual to reset the SCSI card.</windows>

Cause Remedy	 Same SCSI ID is used for other SCSI devices. Check the SCSI ID of all connected SCSI devices, and make sure the same SCSI ID is not set to two or more devices. Reset the SC IDs if the same SCSI ID is set. (See p. 27.) 					
Cause	The terminator is not correctly connected.					
Remedy	Connect the terminator to the last SCSI device on the end of the daisy chain. Enable the terminator function if the SCSI device has a built-in terminator function. (See p. 27.)					
Cause	The scanner was turned ON after the computer.					
Remedy	Turn OFF the computer and scanner. Then, turn ON the scanner, and then turn ON the computer. (See p. 31.)					
Cause	The scanner is OFF.					
Cause Remedy	The scanner is OFF. Turn OFF the computer. Then, turn ON the scanner, and then turn ON the computer. (See p. 31.)					
Cause Remedy Cause	The scanner is OFF. Turn OFF the computer. Then, turn ON the scanner, and then turn ON the computer. (See p. 31.) The scanner's power cord is disconnected from the scanner or the AC power outlet.					
Cause Remedy Cause Remedy	The scanner is OFF. Turn OFF the computer. Then, turn ON the scanner, and then turn ON the computer. (See p. 31.) The scanner's power cord is disconnected from the scanner or the AC power outlet. Turn OFF the computer, and correctly connect the scanner's power cord. Then, turn ON the scanner, and then turn ON the computer. (See p. 30.)					
Cause Remedy Cause Remedy Cause	The scanner is OFF. Turn OFF the computer. Then, turn ON the scanner, and then turn ON the computer. (See p. 31.) The scanner's power cord is disconnected from the scanner or the AC power outlet. Turn OFF the computer, and correctly connect the scanner's power cord. Then, turn ON the scanner, and then turn ON the computer. (See p. 30.) The scanner does not support the SCSI card.					

USB Connections

Cause Remedy	Scanner is not correctly connected. Connect the scanner correctly with a cable that supports USB 2.0. (See p. 29.)
Cause	The USB 2.0 interface card is not correctly installed on the computer.
Remedy	Refer to the USB 2.0 interface card operation manual and install it correctly. Also, check if the USB 2.0 interface card is being recognized by Windows in the operating system you are using.
Cause	The scanner is OFF.
Remedy	Check the connections with the computer, and then turn ON the scanner. (See p. 31.)
Cause	The USB 2.0 interface card does not support the scanner.
Remedy	Use one of the recommended USB 2.0 interface cards. (See p. 29.)



6.2 Clearing Paper Jams

A paper jam is indicated when scanning stops unexpectedly and the message shown below appears on the display panel. Use the procedure below to clear a paper jam.

ĺ	F	е	е	d	i	n	g	М	i	s	s		
I													

Clearing a Paper Jam



- Be careful when you clear a paper jam. You may be injured unexpectedly. For example, the paper edges may cut your fingers, or the document may be damaged.
- Remove all jammed sheets of paper. Paper scraps left inside the scanner may be drawn into the scanner again, causing another paper jam or malfunction.
- When opening or closing the feeder, take care not to get your fingers caught.

Remove all document pages from the document feeder tray and the document eject tray.

2 Open the feeder cover.

Operate the opening lever, and then slowly raise the cover until it stops.



${\bf 3}$ Remove the jammed paper.



4 If the document is jammed under the feeder guide, grasp the tab inside the scanner to open the feeder guide.





If you are duplex scanning, the document may be jammed under the feeder guide.

5 Rotate the dial on your side of the scanner to remove any paper jammed inside the feeder.





- Rotating the dial to the right reverse feeds any paper jammed inside the feeder. Gently pull the paper from the feeder as you rotate the dial.
- Rotating the dial to the left forward feeds jammed paper into the document eject tray. After feeding the paper, raise the document feeder tray and remove the paper.

6 Close the feeder guide.





Take care to avoid pinching your fingers when closing the feeder guide.







Take care to avoid pinching your fingers when closing the feeder cover.







Open the feeder carefully and slowly, taking care to avoid letting the feeder fall over backwards.





10 Slowly and carefully lower the feeder back down.





Lower the feeder slowly, taking care to avoid pinching your fingers. Failure to do so might result in personal injury.

Paper Jam Causes

Any of the following factors can cause paper to jam. If you experience paper jams, check the following points and take the required action:

- What to check: Is the document size or thickness outside the range supported by the feeder, or is the document paper of substandard quality?
 What to do: See "Documents," on p. 46 for information about required document properties.
- What to check: Is a jam being caused by document paper that is not sliding properly?
 What to do: Scan such paper from the flatbod (platen glass), one page at a

What to do: Scan such paper from the flatbed (platen glass), one page at a time. (See p. 51.)

What to check: Are the rollers inside the feeder dirty or worn?
 What to do: If the rollers are dirty, clean them. (See p. 93.) If the rollers are worn, contact your service representative to have them replaced.

6.3 When the Scanned Image Is Not Normal

If there is a problem on the scanned image (image is not sharp or stripes appear on the image), one of the following may be a probable cause. Check the following points and take the appropriate action.

• The scanning glass or rollers in the scanner are dirty.

If the scanning glass or rollers in the scanner are dirty, that dirt will appear on the scanned image.

→ Clean the scanning glass and rollers. For details, see "Daily Cleaning," on p. 92.

• The scan conditions are inappropriate.

When the scan condition setup is inappropriate, the scanned image will not be sharp or will appear darkish.

→ Check the brightness and other scanner settings. If the scanned image is foggy or the document is not scanned at all, a probable cause is that the brightness is set too high. If the scanned image appears darkish, a probable cause is that the brightness is set too low.

Also, check the settings on the driver and the application.

• The driver or application does not run correctly.

If the document cannot be scanned correctly even if the scan conditions are adjusted, a probable cause is that the driver or the application is not functioning correctly.

 \rightarrow Uninstall and then reinstall the driver or application.

For details on how to install the driver, see "Installing the Software," on p. 37. For details on how to install the application, see the instruction manual for the application in use.

• Other Causes

Even if the computer is correctly recognizing the scanner, and the driver and the application are installed correctly, scanning may not be performed correctly. A probable cause is that the interface card is not compatible. Use the recommended interface card.

If the above remedies do not rectify the problem, contact your service representative.



This section explains the error messages and scanner status messages that appear on the display panel.

Error Messages

The following are the messages that appear to indicate errors.

Display	C o v e r O p e n 0 1
Cause	The feeder cover is open.
Remedy	Close the feeder cover.
Display	C o v e r O p e n O 2
Cause	The feeder is raised.
Remedy	Lower the feeder back down.
Display	F e d i n g M i s s
Cause	Jam
Remedy	Check the document and try again. If this error continues to appear, scan the document from the flatbed (platen glass).
Display	J a m x x x x
Cause	Paper is jammed in the feeder.
Remedy	Use the procedure under "Clearing a Paper Jam," on p. 77 to clear the jammed paper.
Display	S e n d f a i I e d . . I
Cause	Scan to Mail send error occurs when sending images using the Job Registration Tool.
Remedy	Check the configuration of the Job Registration Tool settings and try again.

Display Cause	D e t e c t M i x D o c . Vou are attempting to scan a document that contains mixed page sizes while the Different Size Originals Mode is off. Size Originals Mode is off.
Remedy	Confirm the front/rear sides of the ejected document, then turn on the Different Size Originals Mode and scan the document again.
Display	E r r o r E x x x x x x x
Cause	This is a "service call error," which indicates that the scanner has an internal problem.
Remedy	This error requires servicing from your service representative. Turn off the scanner. With the displayed error code on hand, contact your sales reprentative or your service representative.

Scanner Status Messages

Display P I e a s e w|a|i|t|.|.|. The scanner is performing some process. Please wait. Status Display R | e | a | d | y 0 0 0 0 0 The scanner is in the Ready Mode. The scanner will go into the Status Stand-by Mode if you do not perform any operation for approximately 10 minutes. Display S|t|a|n|d|-|b|y M o d e The scanner is in the Stand-by Mode. A signal from the computer or Status an operation panel key operation will recover the scanner to Ready Mode. Display Count O|n|I|y M o d e 0 0 0 0 0 The scanner is in the Count Only Mode. (See "Using the Count Status Only Mode," on p. 63.) 0 1 = X X X X X X X X X X Display Status The scanner is in the Job Mode. Press the [Start] key to start scanning or the [Stop] key to exit the Job Mode. (See "Using the Job Mode for Scanning," on p. 59.)

The following messages indicate the current status of the scanner:



Check the following points when you have problems with the scanner operation:

- Display panel messages are in a different language.
 Cause: The user mode language setting is not configured correctly. Remedy: Display the user mode language setting and select the correct language. (See "About the User Modes," on p. 70.)
- Display panel is too dark or too bright.
 - Cause: The display panel brightness is not adjusted correctly. Remedy: Adjust the display panel brightness in the user modes. (See "About the User Modes," on p. 70.)

• Cannot scan with the feeder.

- Cause:The ISIS/TWAIN driver "Scanning Side" setting is "Flatbed."Remedy:Change the "Scanning Side" setting to something other than
"Flatbed."
- Job titles do not appear when the [Job] keys are pressed.
 Cause 1: There are no jobs registered with the Job Registration Tool.
 Remedy 1: Use the Job Registration Tool to register a job. (See "How to Start the Job Registration Tool," on p. 41.)
 - Cause 2: The computer is turned OFF or it is not connected to the scanner.
 - Remedy 2: Job data is stored on the computer. Make sure the computer is connected properly and turned ON. (See "Connecting to a Computer," on p. 25.)
- The Job function does not work when the [Start] key is pressed after selecting a job.
 - Cause 1: The computer is running an operating system that does not support the Job function.
 - Remedy 1: The Job function is not supported under Windows 95 or NT. Use a computer running another operating system when you want to use the Job function. (See "Checking Your Operating Environment," on p. 24.)
 - Cause 2: The Windows Event function is not configured to start DR-7080C Job Tool.
 - Remedy 2: On the Windows Control Panel, double-click [Scanners and Cameras] to open DR-7080C SCSI properties. Specify "DR-7080C Job Tool" as the "Event" startup application. (See "Setting the Event Function," on p. 60.)

• The Job function does not work when the [Start] key is pressed after selecting a job, and [Scan Error] is displayed.

Cause 1: Another application is using the DR-7080C ISIS/TWAIN Driver.

- Remedy 1: Close the other application that is using the DR-7080C ISIS/TWAIN Driver.
- Cause 2: Feeding is specified from the feeder, and a document is not loaded in the feeder.

Remedy 2: Reload a document into the feeder.

• Cannot scan with USB cable connections.

Cause: The SCSI terminator has not been turned ON.

Remedy: For this scanner to operate normally, the SCSI terminator needs to be turned ON even when using USB connections. Be sure to turn ON the SCSI terminator. (See "Checking Your Operating Environment," on p. 24.)

• The feeder does not close completely.

Cause: The feeder is in the book scanning position.

Remedy: Raise the feeder all the way, and then close it carefully and slowly. (See "Positioning a Document on the flatbed (platen glass)," on p. 51.)

Chapter 7

User Maintenance

This chapter describes daily cleaning of the scanner.

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7.1 Changing the Stamp Cartridge

When using the optional stamp unit (see p. 21) to stamp scanned documents, you should use the following procedure to replace the stamp cartridge whenever the stamp mark becomes smudged or faint. Contact your sales reprentative or service representative to purchase a new stamp cartridge.

1 Open the feeder cover.

Operate the opening lever, and then slowly raise the cover until it stops.



2 Grasping the tab inside the scanner, open the feeder guide.



3 Use a pair of tweezers or some similar tool to remove the old stamp cartridge.








• When installing the stamp cartridge, make sure that the stamp does not protrude outside the hole.

• Improperly installing the stamp cartridge can cause paper jams.

5 Close the feeder guide.





Take care to avoid pinching your fingers when closing the feeder guide.

6 Close the feeder cover.





Take care to avoid pinching your fingers when closing the feeder cover.

Chapter 7 User Maintenance



To maintain high-quality scanning, you should periodically clean the following:

- Main unit
- Flatbed (Platen glass)
- Pressure Board (Black)
- Feeder



Before you clean the scanner, turn OFF the scanner and computer and disconnect the power cord from the power outlet. Otherwise, an electrical shock may result.

- Never clean the scanner with any kind of organic solvent, such as alcohol, benzene, or paint thinner. It might cause a fire and electrical shock, or cause the exterior of the scanner to disfigure or discolor.
- Never spray detergent or water directly onto the flatbed (platen glass). Sprayed liquid can get inside the scanner and soil the light source and lens.
- Overuse of water and allowing the scanner to become too wet during cleaning can damage scanned documents and cause malfunction of the scanner.

Cleaning the Main Unit

Wipe the scanner with a firmly wrung cloth moistened slightly with water or mild detergent. Then wipe off with a clean, dry cloth.



Cleaning the Flatbed (Platen Glass) and Pressure Board (Black)

A dirty flatbed (platen glass) or pressure board (black) can cause soiling of scanned images, or document size detection errors. Clean the flatbed (platen glass) and pressure board (black) periodically.

Raise the feeder.





Open the feeder carefully and slowly, taking care to avoid letting the feeder fall over backwards.

2 Wipe the flatbed (platen glass) and pressure board (black) with a cloth moistened with plain water and thoroughly wrung out. Next, wipe the flatbed (platen glass) and pressure board (black) with a soft, dry cloth.



 ${\bf 3}$ Slowly and carefully lower the feeder back down.





Lower the feeder slowly, taking care to avoid pinching your fingers. Failure to do so might result in personal injury.

Cleaning the Feeder

Without periodical cleaning, a problem may be caused on the scanned image or the document may become soiled. Clean the feeder periodically.

1 Open the feeder cover.

Operate the opening lever, and then slowly raise the cover until it stops.



2 Wipe the eight rollers inside the feeder cover with a cloth moistened with plain water and thoroughly wrung out. Next, wipe the rollers dry with a soft, dry cloth.



 ${f 3}$ Wipe the three rollers on the feeder guide with a cloth moistened with plain water and thoroughly wrung out. Next, wipe the rollers dry with a soft, dry cloth.





4 Grasping the tab inside the scanner, open the feeder guide.



5 Wipe the nine rollers with a cloth moistened with plain water and thoroughly wrung out. Next, wipe the rollers dry with a soft, dry cloth.



6 Wipe the four rollers inside the feeder guide with a cloth moistened with plain water and thoroughly wrung out. Next, wipe the rollers dry with a soft, dry cloth.









Take care to avoid pinching your fingers when closing the feeder guide.

8 Close the feeder cover.





Take care to avoid pinching your fingers when closing the feeder cover.

9 Raise the feeder.





Open the feeder carefully and slowly, taking care to avoid letting the feeder fall over backwards.

10 Wipe the scanning glass (narrow strip of glass) to the left of the flatbed (platen glass) with a cloth moistened with plain water and thoroughly wrung out. Next, wipe the glass dry with a soft, dry cloth.



11 Wipe the metal next to the rubber rollers with a cloth moistened with plain water and thoroughly wrung out. Next, wipe the metal dry with a soft, dry cloth.



12 Slowly and carefully lower the feeder back down.





Lower the feeder slowly, taking care to avoid pinching your fingers. Failure to do so might result in personal injury.

Cleaning the Power Plug

If you leave the power plug connected to the power outlet for a long period of time, dust may accumulate at the power outlet, and cause a fire or electrical shock. Clean the power plug periodically.

Appendix

This appendix contains the specifications and index.

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Specifications

Specifications for the Scanner

Туре	Desktop A	DF/flatbed scann	er
Document Size	Width:	139.7 mm to 3	04.8 mm
	Length:	128 mm to 432	2 mm (Normal Mode)
		128 mm to 630) mm (Long Document Mode)
		128 mm to 540	0 mm (Long Document Mode/Color 600 dpi Mode)
Document Thickness	Black-and-	white Documents	6
	• Simplex:	0.06 mm to 0.	15 mm
	 Duplex: Black-and 	-white/Color Doci	inents Mixed
	214011 4110	0.07 mm to 0.	15 mm
	Color Doc	uments	
		0.08 mm to 0.	15 mm
Document Weight	Black-and-	white Documents	5
	 Simplex: Duplex: 	42 to 128 g/m	2
	Black-and	-white/Color Doci	uments Mixed
		50 to 128 g/m ²	
	Color Doc	uments	
		64 to 128 g/m	2
Document Feeding	Feeder/Fla	atbed	
Scanning Method	3-line CCI	C	
Light Source	Xenon lan	ıp	
Scanning Side	Simplex (a	automatic inversio	on of document for duplex scanning)
Scanning Mode	Black-and	-white, advanced	text enhanced, error diffusion,
	256-level o	grayscale, 24-bit o	color
Scanning Resolution	600 x 600	dpi/400 x 400 dp	i/300 x 300 dpi/
(primary scan lines x	240 x 240	dpi/200 x 200 dp	i/150 x 150 dpi/
secondary scan lines)	100 x 100	dpi	
Scanning Speed (portrai	it LTR/A4-s	size document):	
Black-and-White	Simplex	300 x 300 dpi	70 ppm
	Duplex	300 x 300 dpi	36 ipm
256-level grayscale	Simplex	300 x 300 dpi	68 ppm
04 h h a a han	Duplex	300 x 300 dpi	36 ipm
24-bit color	Simplex	150 X 150 dpl	70 ppm
Automatia Food		$150 \times 150 \text{ up}$	or stack 12 mm or loss
			of stack 13 mm of less
Interface	SCSI-III/H	II-Speed USB 2.0	
Other Functions	Automatic Mode, Job	paper size detect p function	ction, Dropout color, Count Only

Dimensions	300 mm (H) x	575 mm (W) x 602 mm (D)
Weight	Approximately	33.6 kg
Power Requirement	AC 220-240V (50/60 Hz), 0.6 A (max)	
Power Consumption	Operating: Ready:	0.74 A maximum Under 0.23 A
Noise	Less than 78 c	JB
Operating Environment	Temperature: Humidity:	15°C to 30°C (59°F to 86°F) 25% to 80% RH

- You can use the functions noted above if the software supports them.
- They may not work depending on your computer's capabilities and the software you are using.

Specifications are subject to change without notice.

Options

Stamp Unit Stamps a mark on the surface of a document to indicate it has been scanned. (See "Stamp Unit," on p. 21.)

Consumables

Stamp Cartridge For replenishing the stamp unit.

• For details about options and consumables, contact your sales representative or your service representative.

Exterior Dimensions

Units: millimeters







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Job Title Record

This page is for recording the titles of jobs that you have registered with the Job Registration Tool. (See "Job Registration Tool," on p. 42.) Make a copy of this page and the next page and keep them near the scanner.

Job No.	Job Title	Function	
		\Box Scan to PC \Box Scan to Printer	Scan to Mail
		☐ Scan to PC ☐ Scan to Printer	□ Scan to Mail
		□ Scan to PC □ Scan to Printer	□ Scan to Mail
		□ Scan to PC □ Scan to Printer	Scan to Mail
		□ Scan to PC □ Scan to Printer	□ Scan to Mail
		□ Scan to PC □ Scan to Printer	Scan to Mail
		☐ Scan to PC ☐ Scan to Printer	Scan to Mail
		□ Scan to PC □ Scan to Printer	Scan to Mail
		☐ Scan to PC ☐ Scan to Printer	\Box Scan to Mail
		\Box Scan to PC \Box Scan to Printer	□ Scan to Mail
		□ Scan to PC □ Scan to Printer	\Box Scan to Mail
		□ Scan to PC □ Scan to Printer	\Box Scan to Mail
		□ Scan to PC □ Scan to Printer	\Box Scan to Mail
		☐ Scan to PC ☐ Scan to Printer	□ Scan to Mail
		☐ Scan to PC ☐ Scan to Printer	\Box Scan to Mail
		Scan to PC	Scan to Mail
		Scan to PC	Scan to Mail
		Scan to PC	Scan to Mail

Job No.	Job Title	Function	
		☐ Scan to PC ☐ Scan to Printer	\Box Scan to Mail
		□ Scan to PC □ Scan to Printer	\Box Scan to Mail
		□ Scan to PC □ Scan to Printer	\Box Scan to Mail
		□ Scan to PC □ Scan to Printer	\Box Scan to Mail
		□ Scan to PC □ Scan to Printer	\Box Scan to Mail
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		□ Scan to PC □ Scan to Printer	□ Scan to Mail
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		Scan to PC	Scan to Mail
		Scan to PC	Scan to Mail
		Scan to PC	Scan to Mail