DR-7080C

SERVICE MANUAL

FIRST EDITION

Canon

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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.

CONTENTS

CHAPTER 1 GENERAL DESCRIPTION

I.	FEATURES1-1	IV.	NAME OF PARTS	1-7
II.	SPECIFICATIONS1-2	V.	EXPLANATION OF OPERATION	. 1-10
III.	PRECAUTIONS1-6	VI.	REGULAR INSPECTION BY USERS	. 1-14

CHAPTER 2 FUNCTIONS & OPERATION

I.	OUTLINE2-1	V.	OPTION	2-72
II.	FEEDER2-5	VI.	ELECTRICAL PARTS LAYOUT	2-75
III.	READER2-34	VII	LISTS OF CONNECTORS/SW/LED	
IV.	CONTROLLER2-50		OF EACH PCB	2-79

CHAPTER 3 DISASSEMBLY & REASSEMBLY

l.	MAIN UNIT3-1	III.	READER	.3-35
II.	FEEDER3-5	IV.	CONTROLLER	.3-52

CHAPTER 4 INSTALLATION & MAINTENANCE

I.	SELECTION OF LOCATION4-1	IV.	PERIODICALLY REPLACED PARTS.	4-8
II.	UNPACKING AND INSTALLATION4-2	V.	CONSUMABLE PARTS AND	
III.	STAMP UNIT INSTALLATION		CONSUMABLES	4-9
	PROCEDURE 4-6	VI.	PERIODIC SERVICING	4-11

CHAPTER 5 TROUBLESHOOTING

I.	ERROR DISPLAY AND REMEDY 5-1	V.	AFTER REPLACING PARTS	5-46
II.	SERVICE MODE5-4	VI.	OPERATION TROUBLESHOOTING	5-50
III.	USER MODES 5-34	VII.	IMAGE TROUBLESHOOTING	5-54
IV.	FEEDER ADJUSTMENT5-35			

APPENDIX

I.	GENERAL DIAGRAM	A-1	IV.	SIGNAL NAMES LIST	.A-7
II.	READER DIAGRAM	A-3	V.	SPECIAL TOOLS LIST	A-10
Ш	FEEDER DIAGRAM	Δ-5			

CHAPTER 1

GENERAL DESCRIPTION

l.	FEATURES1-1	IV.	NAME OF PARTS1-7
II.	SPECIFICATIONS1-2	V.	EXPLANATION OF OPERATION1-10
III.	PRECAUTIONS1-6	VI.	REGULAR INSPECTION BY USERS1-14

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

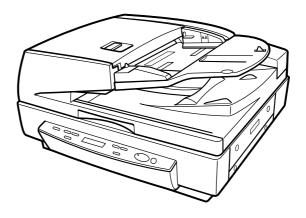


Figure 1-101

[&]quot;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 Hz 2) for American region: 120 VAC, 60 Hz 3) for European region: 220 to 240 VAC, 50/60 Hz 4) for others		
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	1) Sound power level In standby mode: In operating mode: 2) Sound pressure level: In standby mode: In operating mode: 40 dB or less (100 to 300 dpi) 75 dB or less (400 to 600 dpi) 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	Stamp unit Network scanning adapter: NSA-01		

Table 1-201

2. Document Reading

No.	Item	Specifications				
1	Method of scan	The state of				
2	Type of sensor	3-lines CCD				
3	Picture element	Density of element: 600 dpi, Effective 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: Simplex (front), Duplex FB: Simplex				
8	Reading size (typical)	1) L series: LDR / LGL / LTR / LTR-R 2) A series: A3 / A4 / A4R/ A5 / A5R 3) B series: B4 / B5 / B5R				
9	Reading g size (atypical)	1) Available pixel unit setting 2) Main-scanning direction: Min. 139.7 mm, Max. 298 mm 3) Sub-scanning direction: Min.128 mm, Max. 432 mm				
10	Output mode	1) Binary (Black & White / Error diffusion Advanced text enhancement) 2) Grayscale (8 bit) 3) Color (24 bit)				
11	Output resolution	1) 100 × 100 4) 240 × 240 7) 600 × 600	dpi 5) 300	•	•	•
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.)		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				
		•	•	setting, cor	nputer perfo	rmance, or
		other conditions.				

Table 1-202

3. Documents Feed (ADF)

No.	Item	Specifications
1	Document size	1) Width: 139.7 to 304.8 mm 2) 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)	1) 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) 2) Duplex black & white document 50 to 128 g/m² (0.07 to 0.15 mm) 3) Color document 64 to 128 g/m² (0.08 to 0.15 mm) 4) Black & white document at black & white 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/m²)
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	1) Brightness adjustment: 2) Contrast adjustment: 3) Automatic brightness adjustment: ABC processing 4) Shading correction: Standard white plate built in the 5) Smoothing: 6) Gamma correction: 7) Edge emphasis: 8) Image data compression: 9) MultiStream function: 10) Automatic size detection: 11) Skew correction:	7 levels ent (AE): e scanner. Available Standard / Custom 5 steps JPEG module built-in Available	
2	Other function	1) Long document mode 2) Pre-scan 3) Count-only 4) Patch code 5) New file 6) Job function 7) Counter: stored in the memory 8) 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.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interfernce received, inculuding interference that may cause undesired operation.

This Class A digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

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

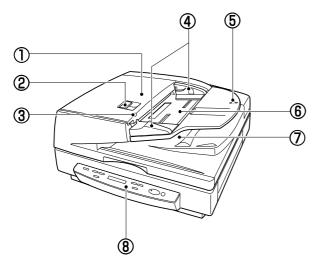


Figure 1-401

- Feeder cover
- ② Opening lever
- ③ Document set indicator
- ④ Slide guide (Document guide)
- ⑤ Large-size document detection sensor (LGL sensor)
- 6 Document feeder tray
- ⑦ Document delivery tray
- ® Operation panel

2. Flatbed

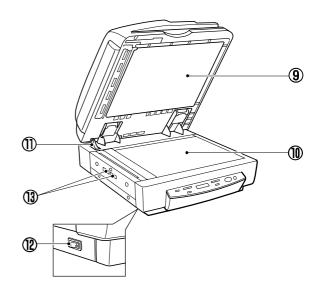


Figure 1-402

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

3. Rear View

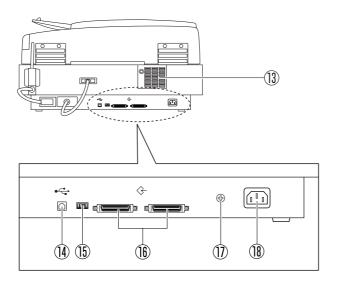


Figure 1-403

- (13) Air vents
- **4** USB connector
- 15 DIP switches
- **®** SCSI connectors
- Grounding terminal
- ® 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

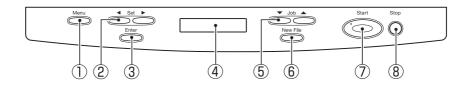


Figure 1-404

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

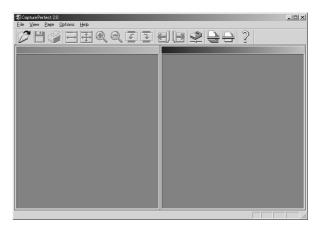


Figure 1-501

2) Scanner Setting

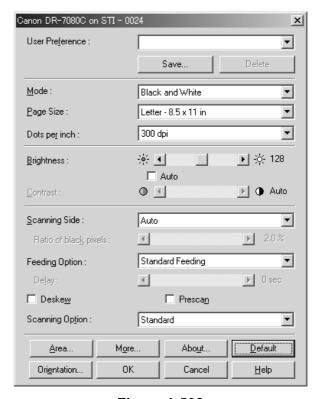


Figure 1-502

3) Advanced Settings

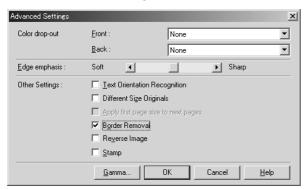


Figure 1-503

4) Job Registration

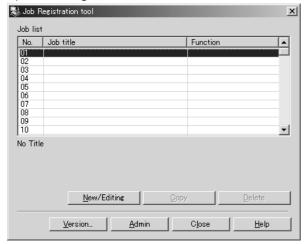


Figure 1-504

5) MultiStream

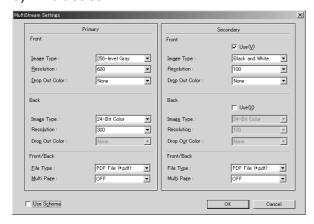


Figure 1-505

6) Version Indication



Figure 1-506

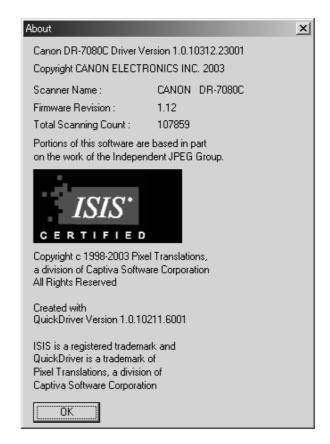


Figure 1-507

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.

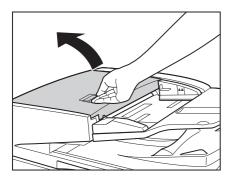


Figure 1-508

3) Remove the jammed document.

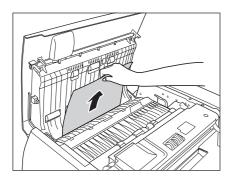


Figure 1-509

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

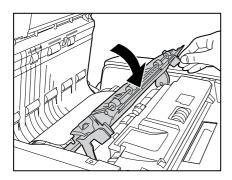


Figure 1-510

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

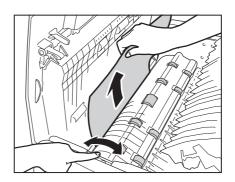


Figure 1-511

6) Close the feeder guide.

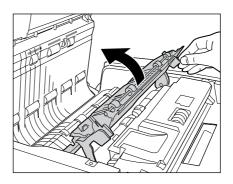


Figure 1-512

7) Close the feeder cover.

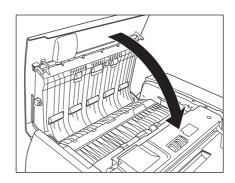


Figure 1-513

8) Open the feeder.

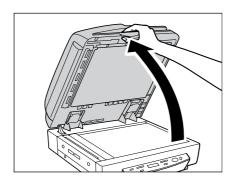


Figure 1-514

9) Remove the document jammed in the feeder.

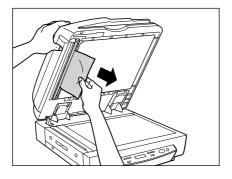


Figure 1-515

10) Close the feeder.

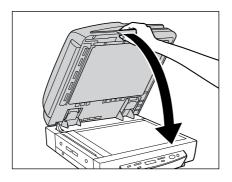


Figure 1-516

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

	OUTLINE2-1			
II.	FEEDER2-5	VI.	ELECTRICAL PARTS LAYOUT	2-75
	READER2-34			
IV.	CONTROLLER2-50		OF EACH PCB	2-79

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.

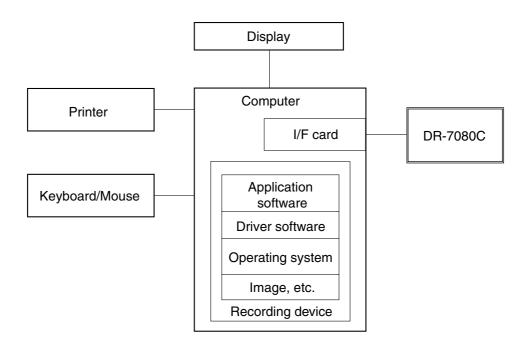


Figure 2-101

2. Overall Configuration

Figure 2-102 shows the overall configuration.

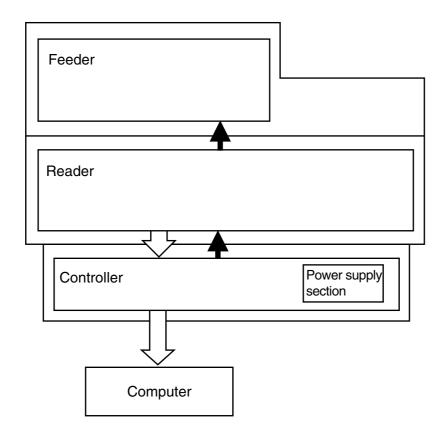


Figure 2-102

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.

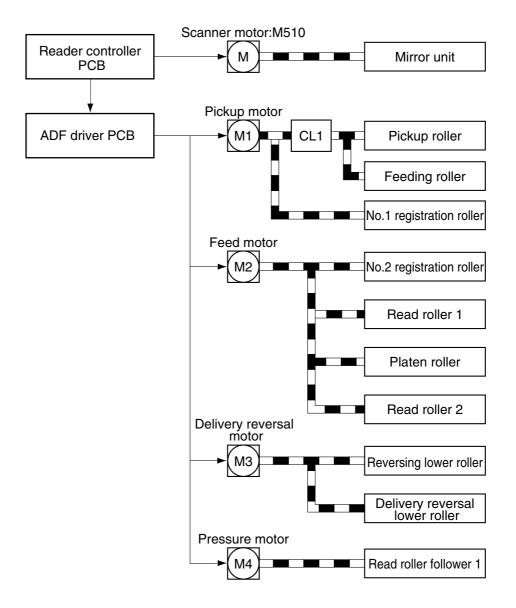


Figure 2-103

4. Electric Circuit

Figure 2-104 shows the electrical circuit block diagram

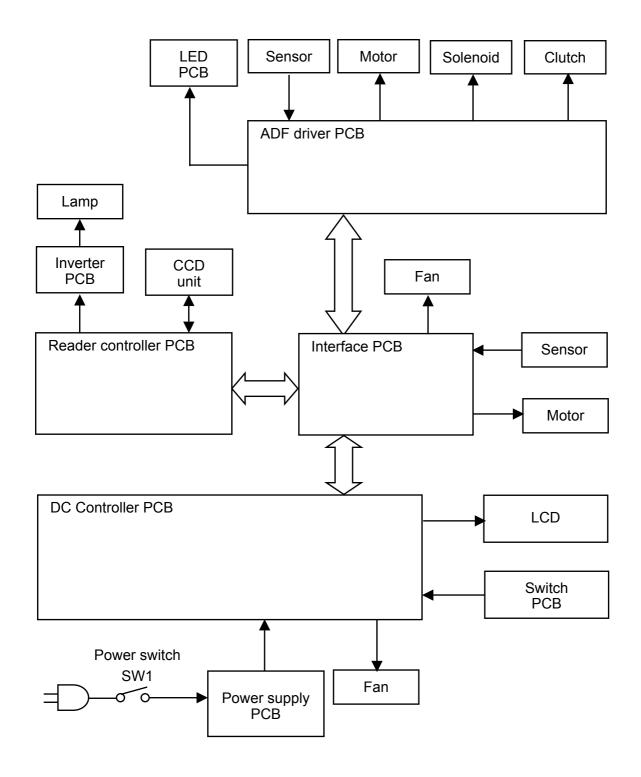


Figure 2-104

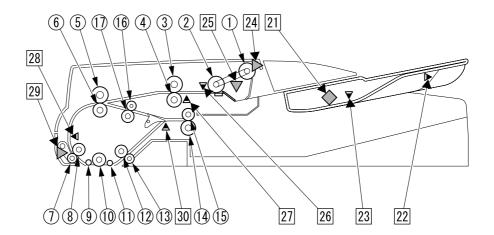
II. FEEDER

1. Basic Construction

Outline of the feeder system
 Figure 2-201 shows the cross section of

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)
- ® Read roller 1
- 10 Platen roller
- 1 Platen roller follower 2
- 12 Read roller 2
- (3) Read roller follower 2
- Delivery reversal lower roller

- (b) Delivery reversal upper roller
- 16 Reversal upper roller
- (7) 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

Figure 2-201

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.

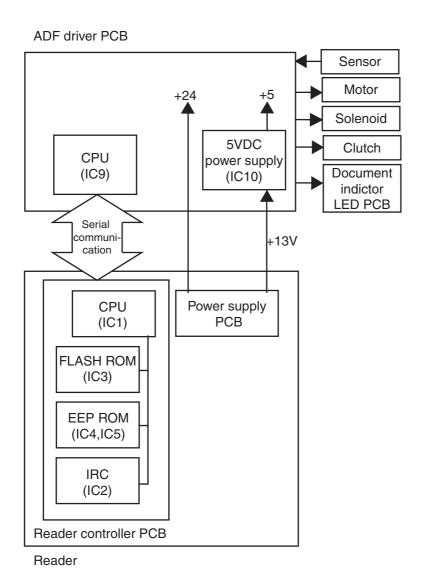


Figure 2-202

3) Inputs to the ADF driver PCB

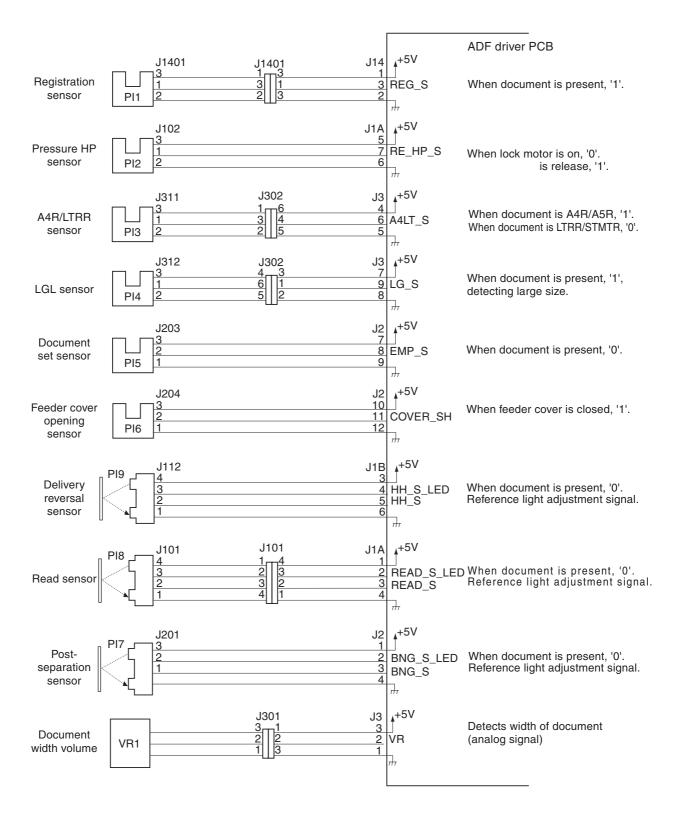


Figure 2-203

4) Outputs from the ADF driver PCB

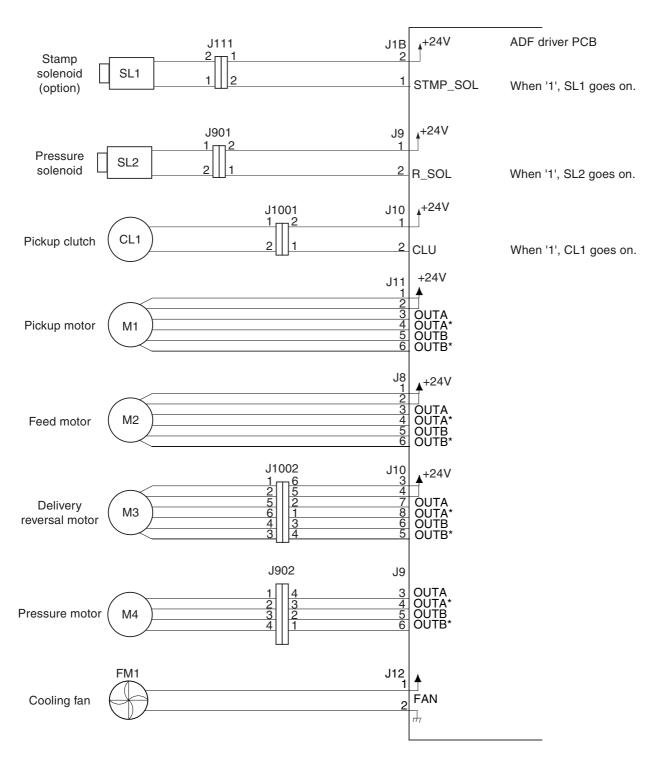


Figure 2-204

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	М3	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:

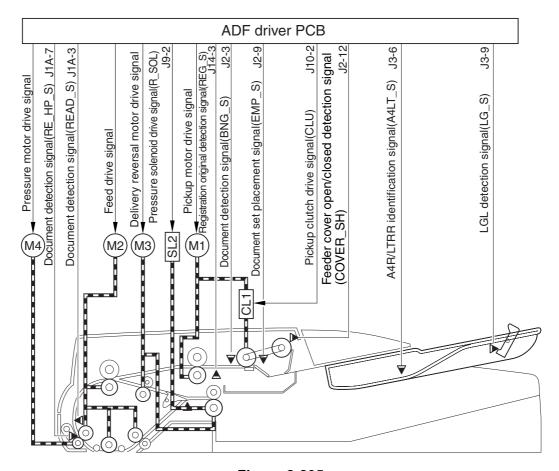


Figure 2-205

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
2	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")

3) Normal rotation pickup/delivery operation (simplex mode) The following shows the flow of documents:

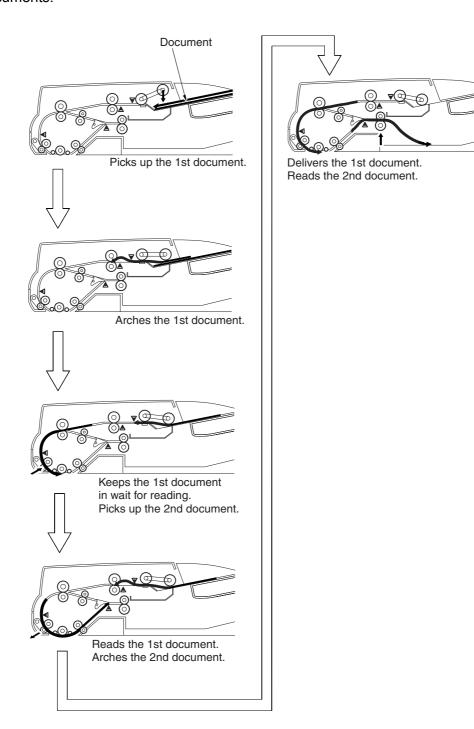


Figure 2-206

4) Normal rotation pickup/reversal delivery (duplex mode)

The following shows the flow of documents:

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

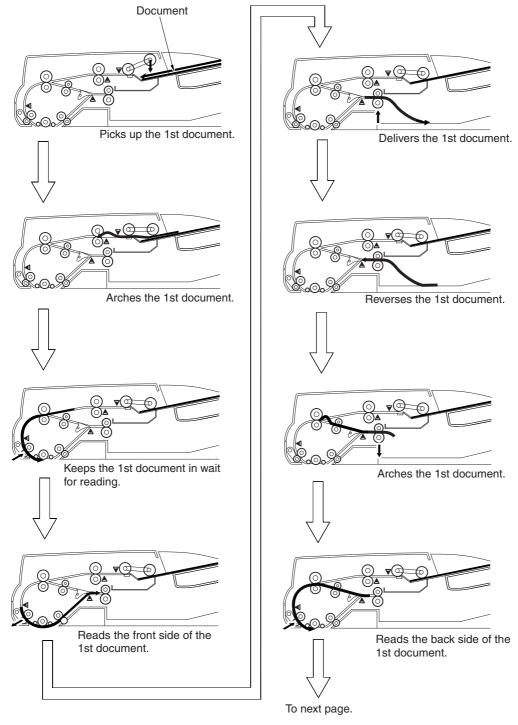


Figure 2-207

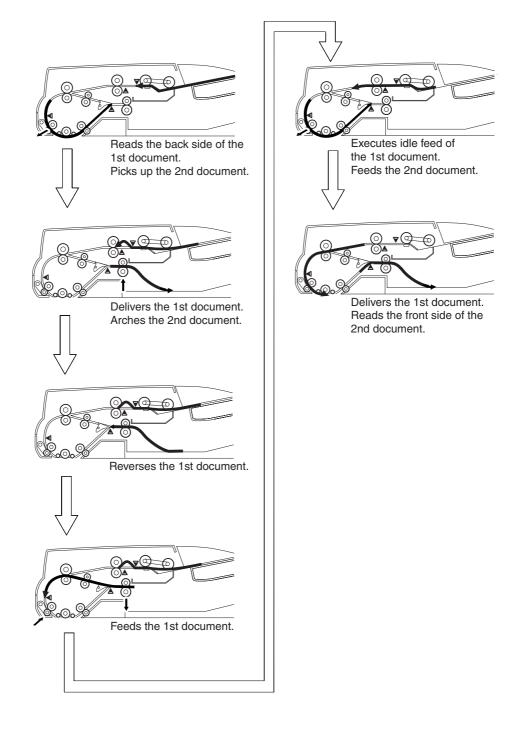


Figure 2-208

• Large-size

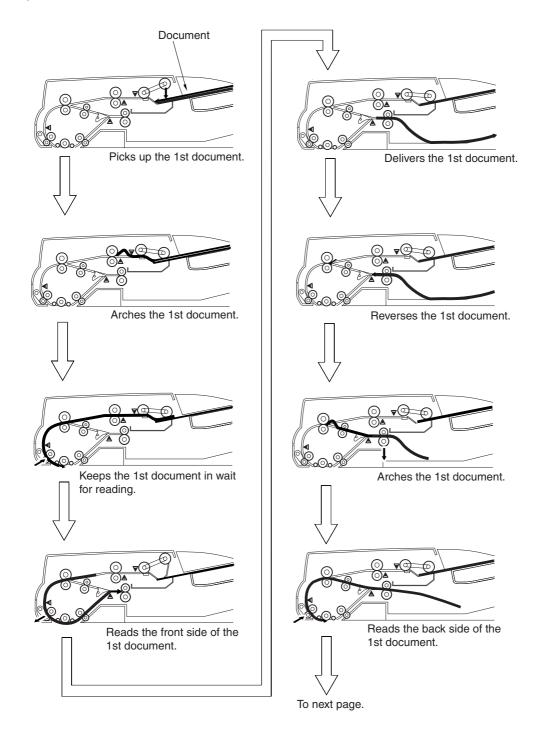


Figure 2-209

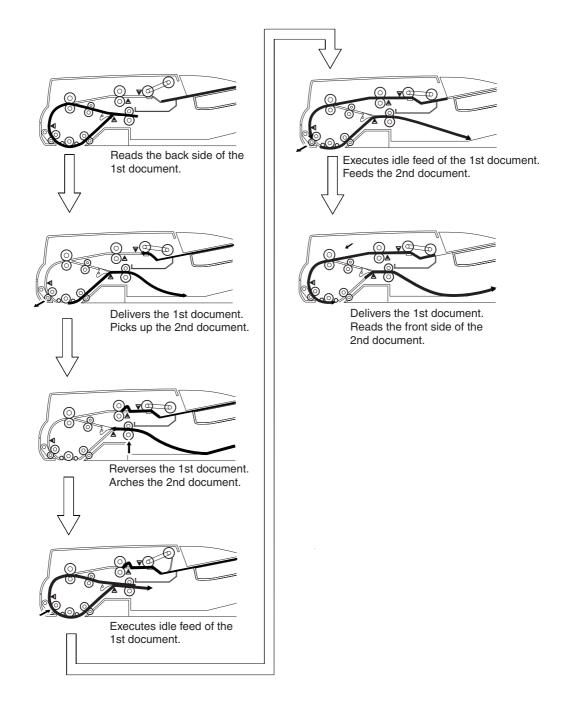


Figure 2-210

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).

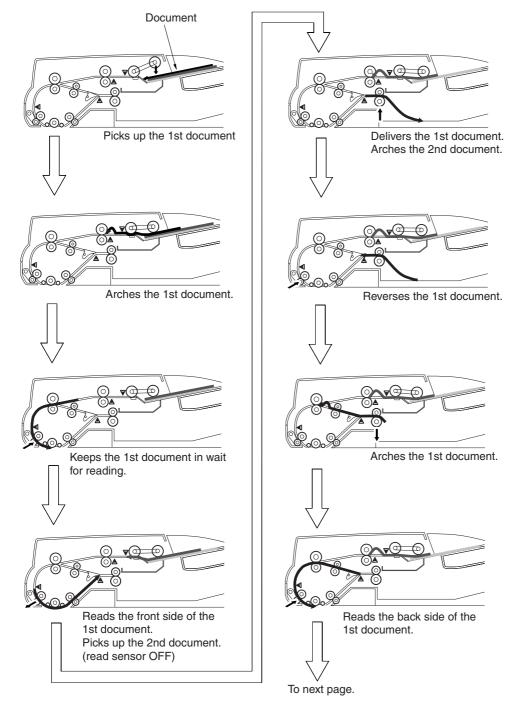


Figure 2-211

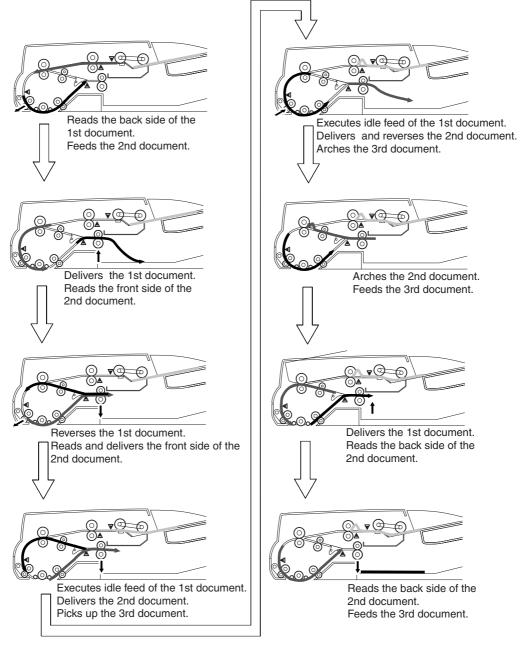


Figure 2-212

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: ONLong 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

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.

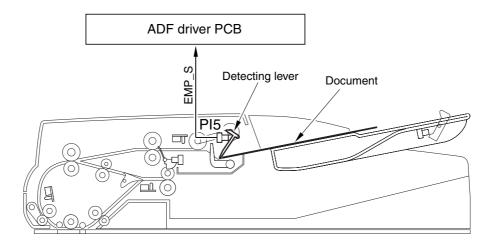


Figure 2-213

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.

_	Dimensions (mm)		LGL	Post-separation	Guide	
Document		sensor	•		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.

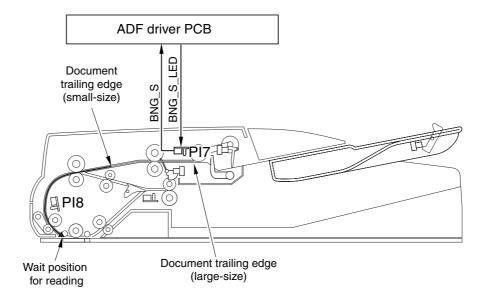


Figure 2-214

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 225mm 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.

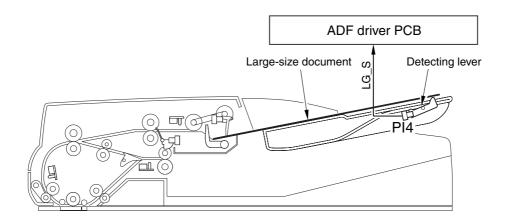


Figure 2-215

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

Table 2-204

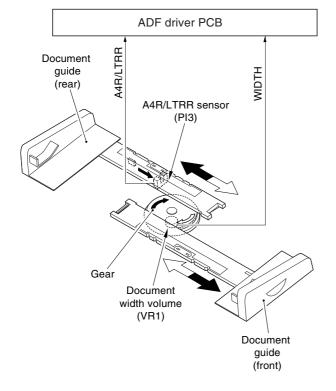


Figure 2-216

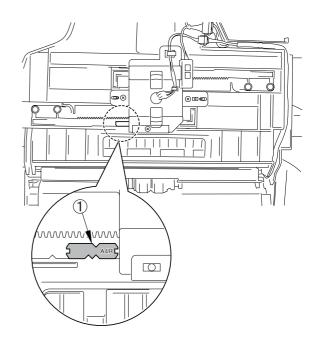


Figure 2-217

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.

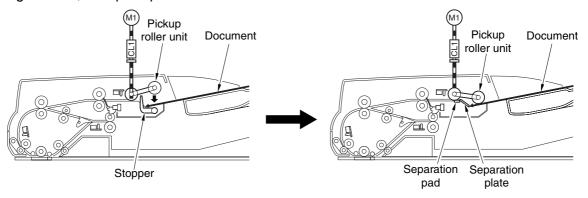


Figure 2-218

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.

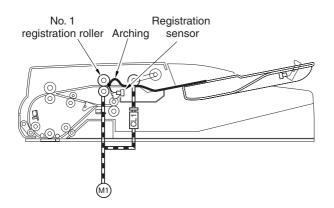


Figure 2-219

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.

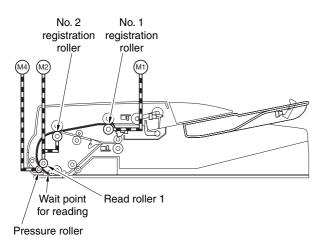


Figure 2-220

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.

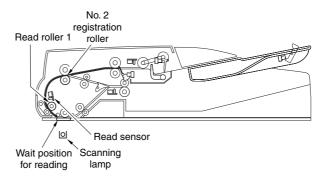


Figure 2-221

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.

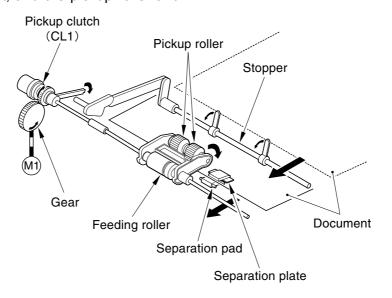


Figure 2-222

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

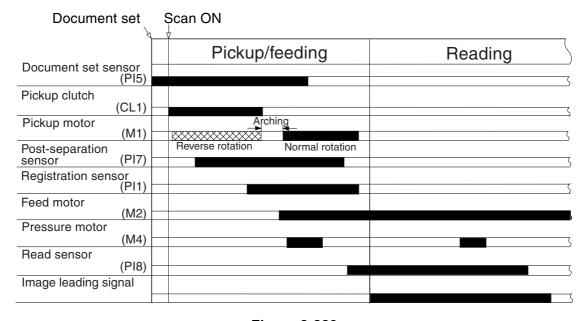


Figure 2-223

- 4) 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

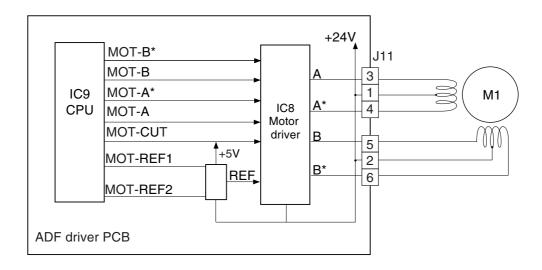


Figure 2-224

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

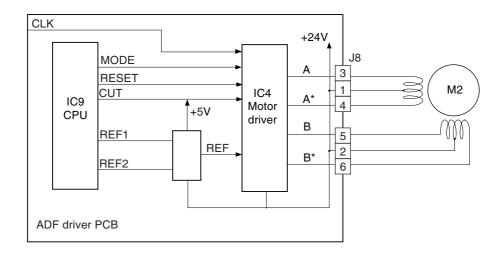


Figure 2-225

- 6) 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

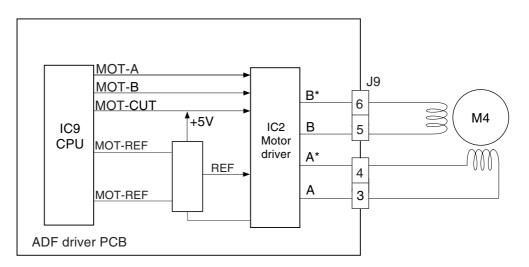


Figure 2-226

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.

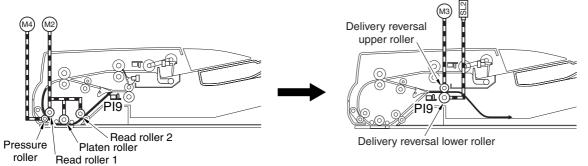


Figure 2-227

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.

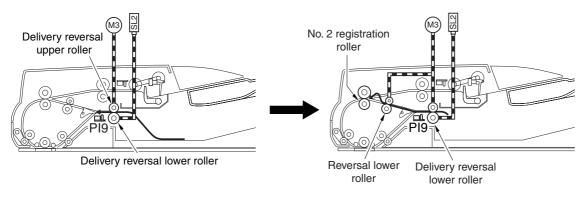


Figure 2-228

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.

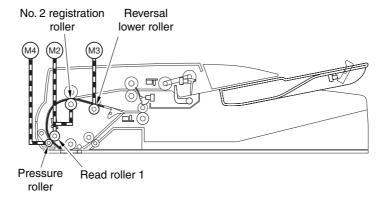


Figure 2-229

2) Sequence of operation

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

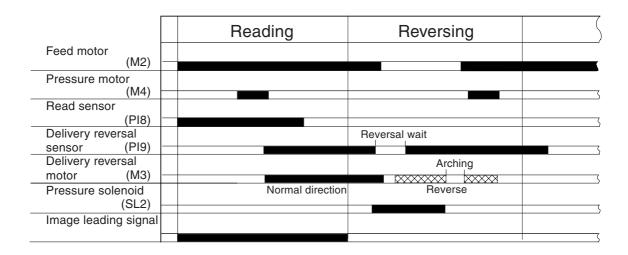


Figure 2-230

3) 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

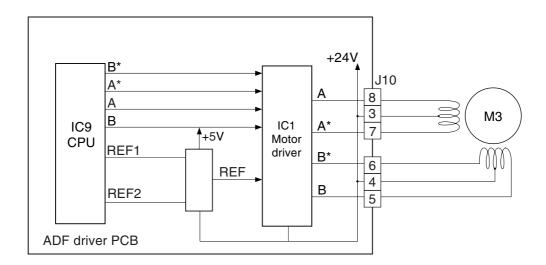


Figure 2-231

6. Moving and Delivering

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.

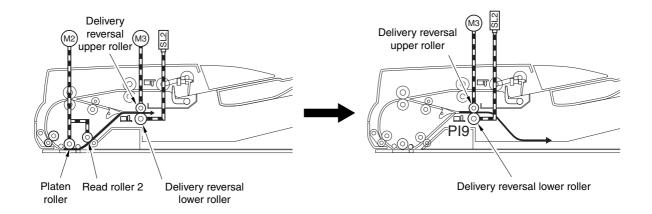


Figure 2-232

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

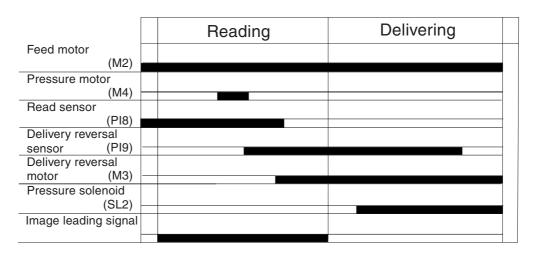


Figure 2-233

III. READER

1. Basic Construction

Major components
 The reader consists of the following major components:

Item	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

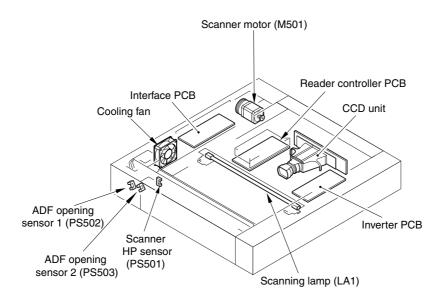


Figure 2-301

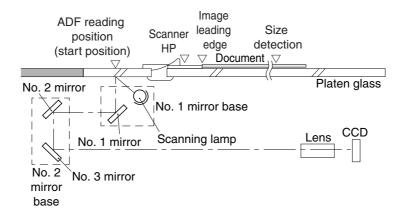


Figure 2-302

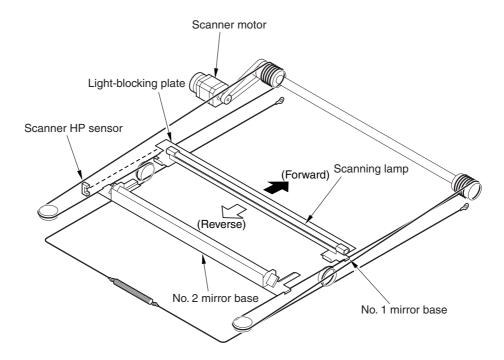


Figure 2-303

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

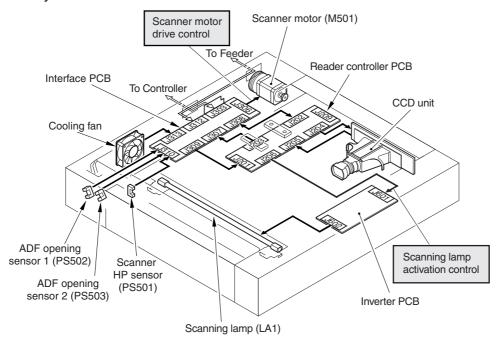


Figure 2-304

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

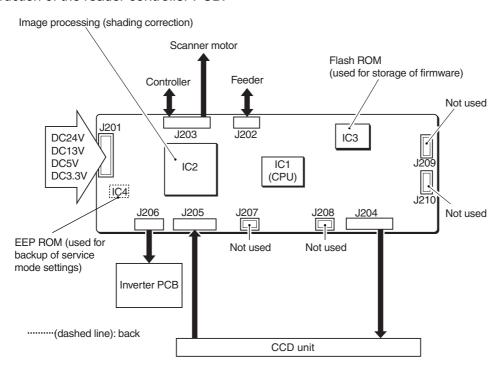


Figure 2-305

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

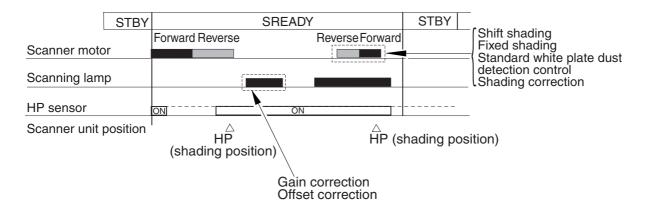
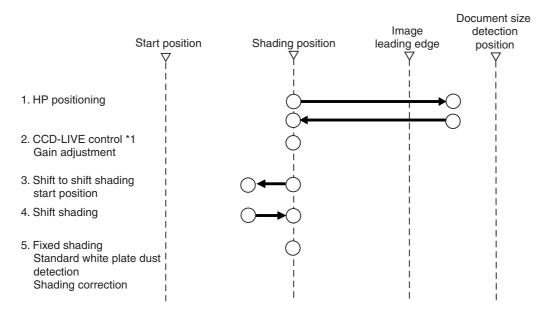


Figure 2-306



*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 scanning

• FB mode; 1 document

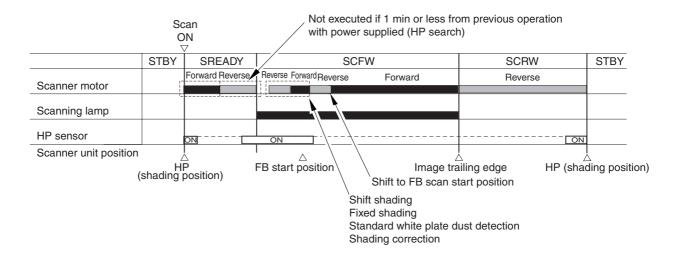
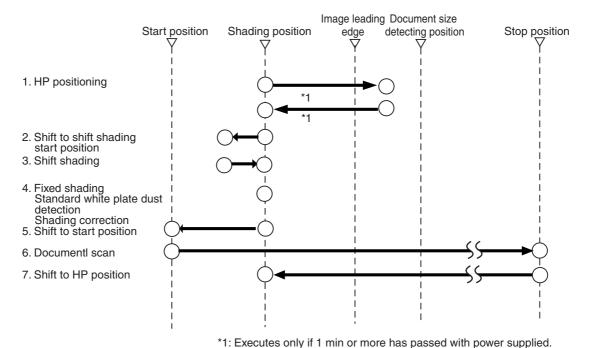


Figure 2-308



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Figure 2-309

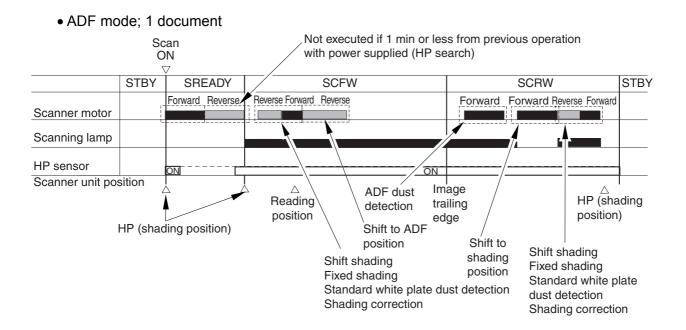
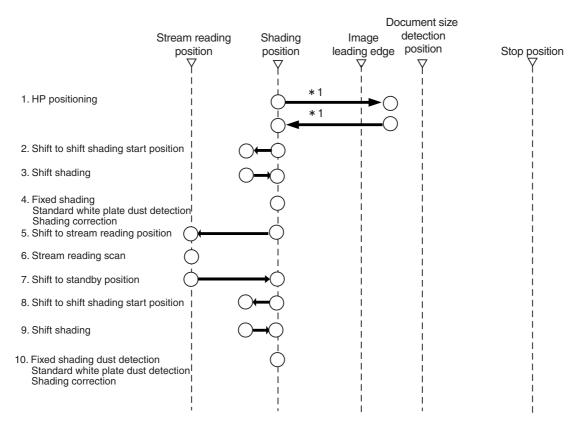


Figure 2-310



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

Figure 2-311

3. Drive of the Scanner

1) Overview

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

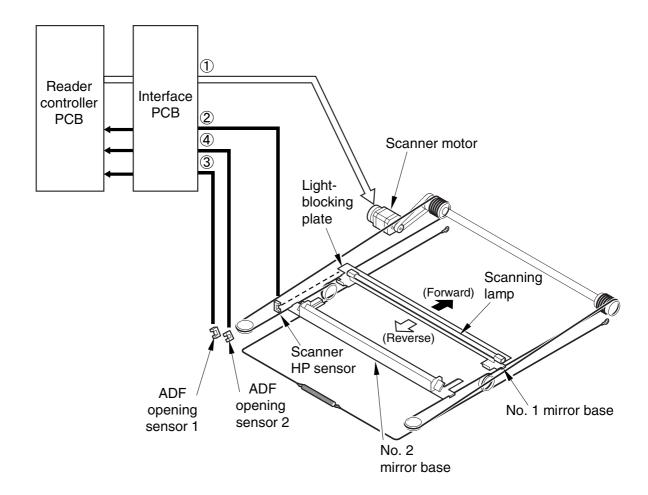


Figure 2-312

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.

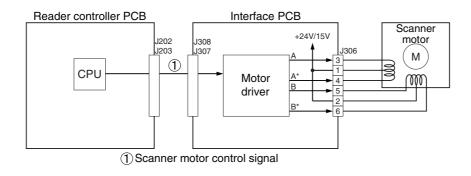
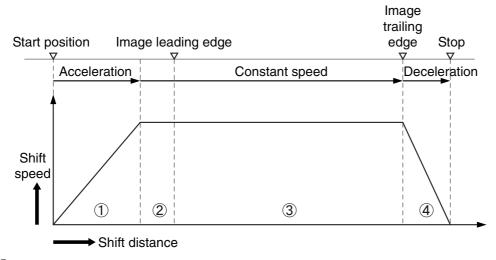


Figure 2-313

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.
- 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.

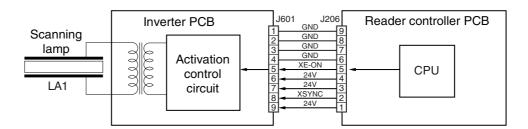


Figure 2-315

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.

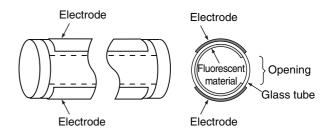


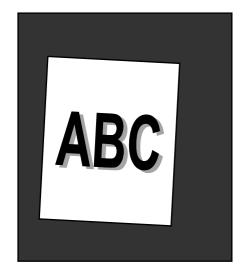
Figure 2-316

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.

• In case the background is black



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 white

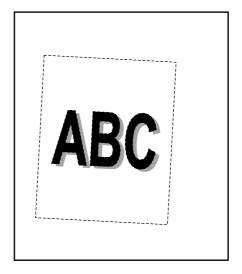


Figure 2-317

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.

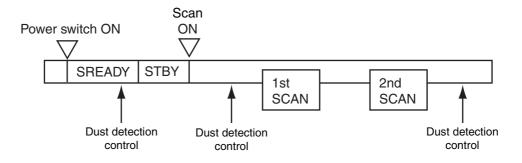


Figure 2-318

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.

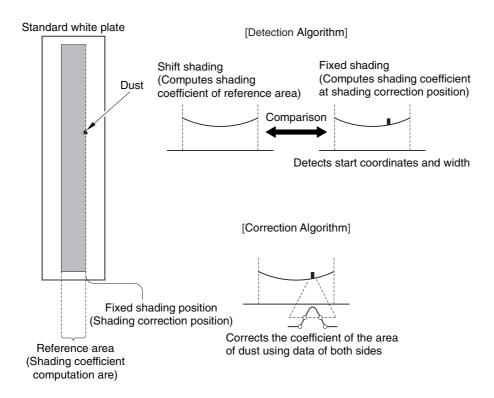


Figure 2-319

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.

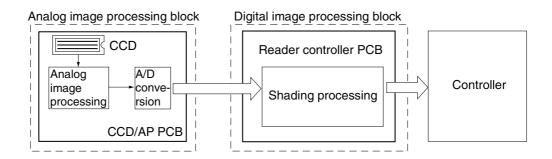


Figure 2-320

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).

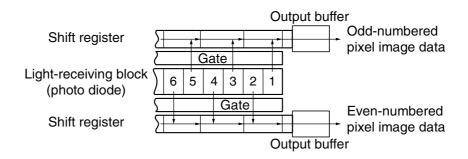


Figure 2-321

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.

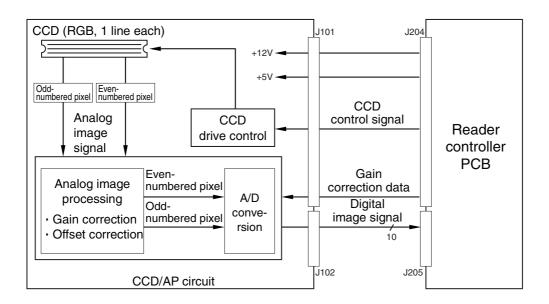


Figure 2-322

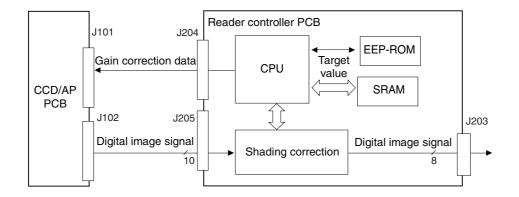


Figure 2-323

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.

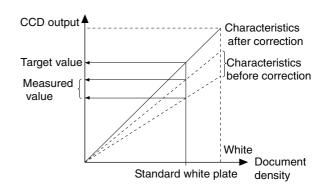


Figure 2-324

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.

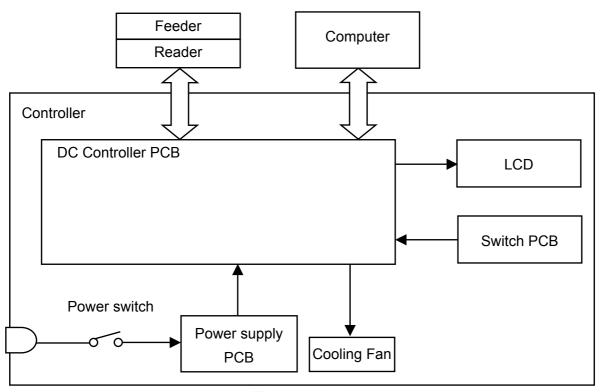


Figure 2-401

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.

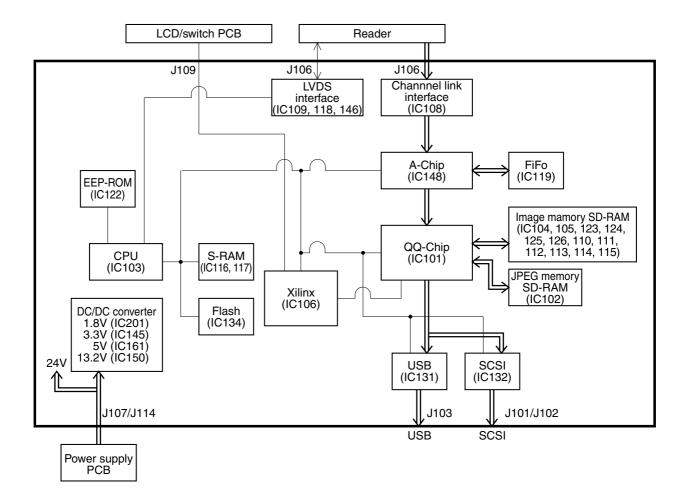


Figure 2-402

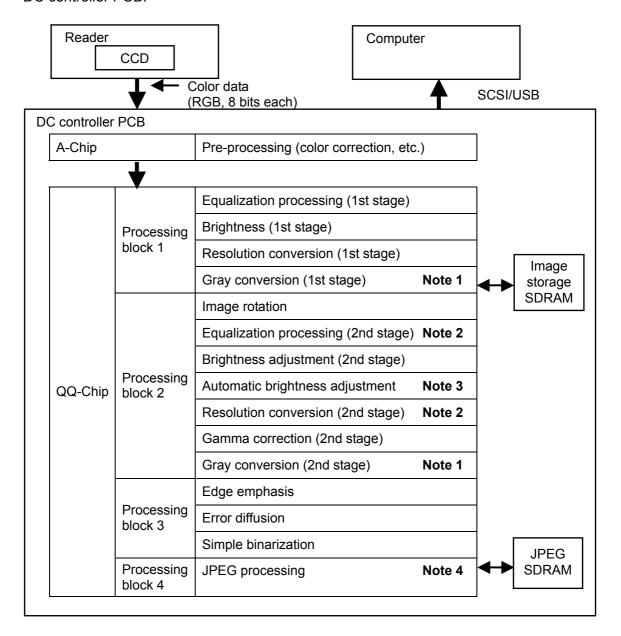
IC No.	Name	Function
IC101	QQ-Chip	Image processing, JPEG compression, DMA transfer
IC102	JPEG memory (SDRAM)	JPEG compression memory
IC103	CPU	Controller control
IC104	Image memory (SDRAM)	Image storage memory
IC105	Image memory (SDRAM)	Image storage memory
IC106	Xilinx	DMA control, etc.
IC108	Channel 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.



- 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.

Figure 2-403

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.

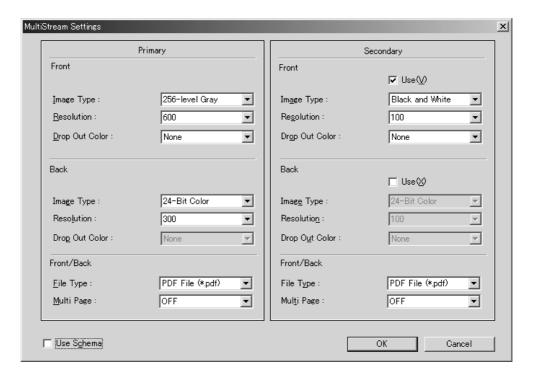
Following edge emphasis, processing block 3 performs error diffusion or simple binarization according to the requested output mode. The data whose image processing has been completed is output to the computer via the SCSI or USB interface.

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 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.



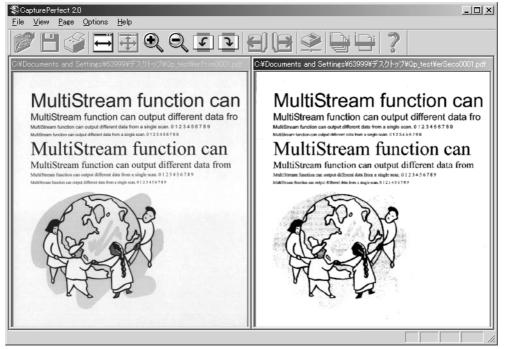


Figure 2-404

3) 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.

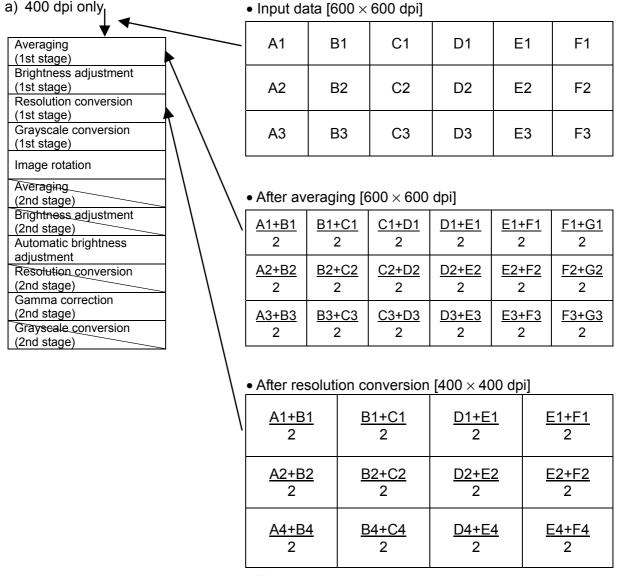


Figure 2-405

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.

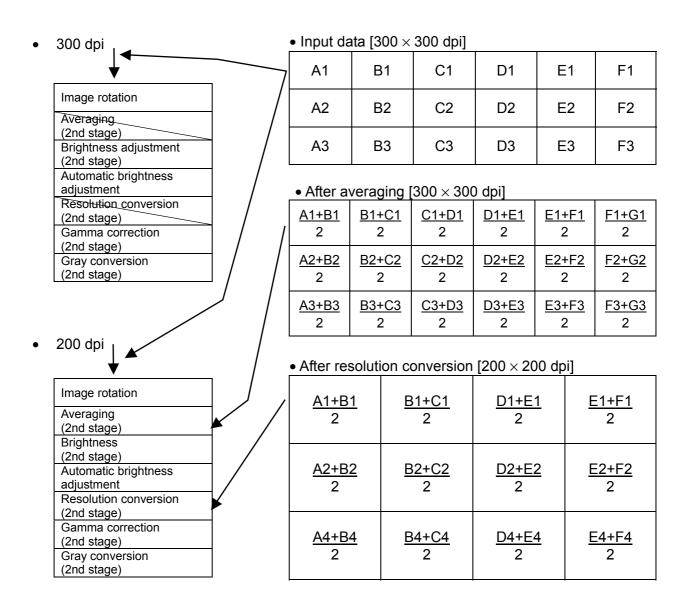


Figure 2-406

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.

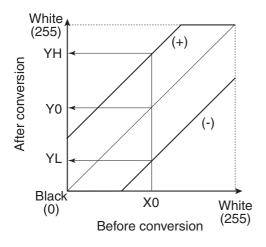


Figure 2-407

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.

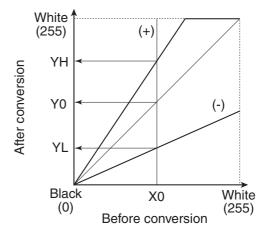


Figure 2-408

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.

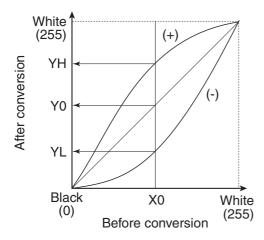


Figure 2-409

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)

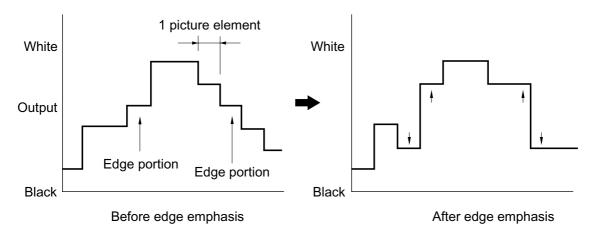


Figure 2-410

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.

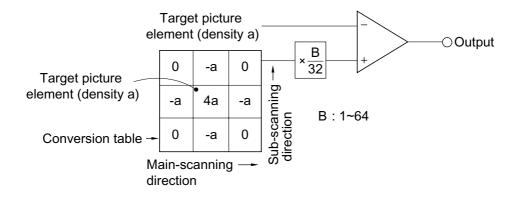


Figure 2-411

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).

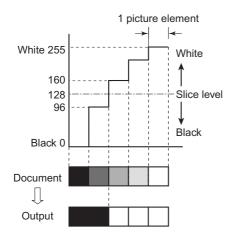


Figure 2-412

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.)

First row of line 1

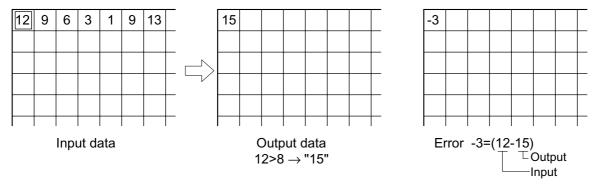


Figure 2-413

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.

Second row of line 1

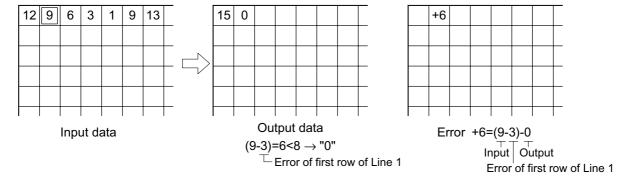


Figure 2-414

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.

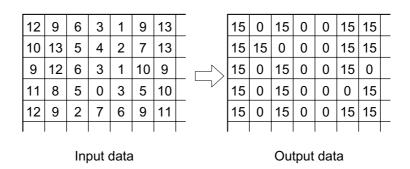


Figure 2-415

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

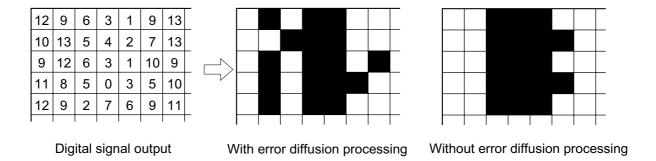


Figure 2-416

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.

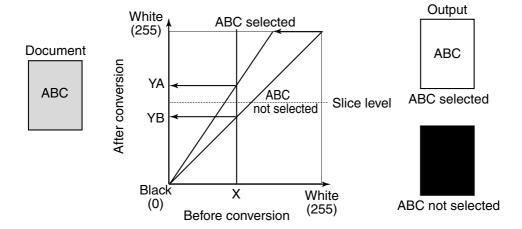


Figure 2-417

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

printed on a background.

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

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.

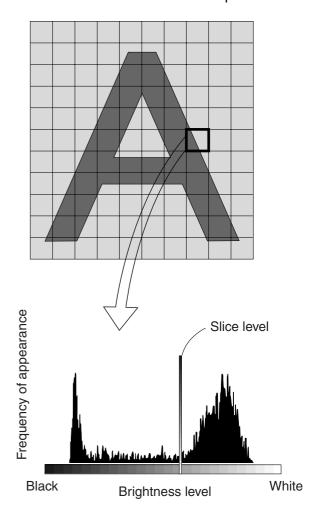


Figure 2-418

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 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).

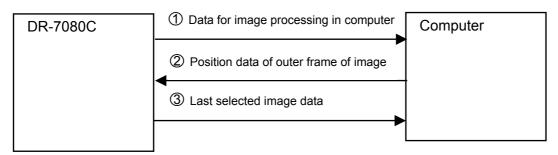


Figure 2-419

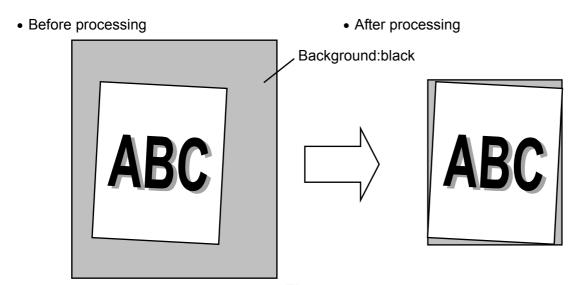


Figure 2-420

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.

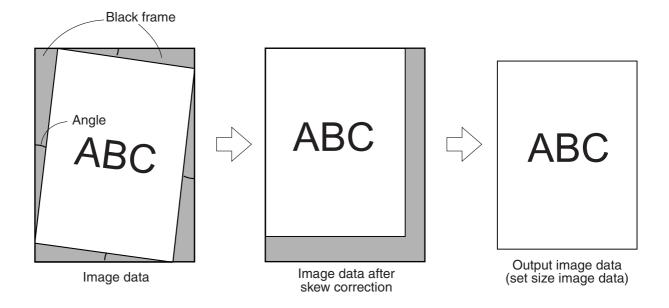


Figure 2-421

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.

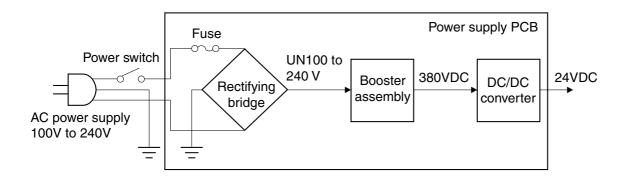


Figure 2-422

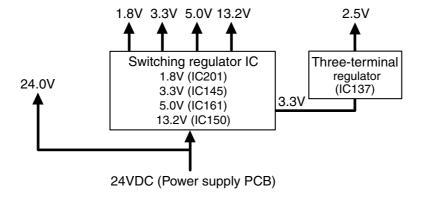


Figure 2-423

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.

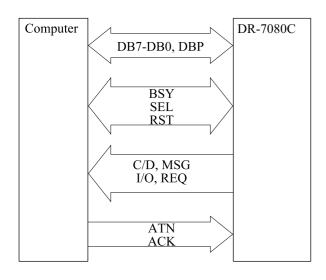


Figure. 2-424

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

connector.

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

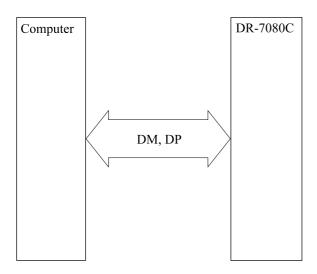


Figure. 2-425

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.

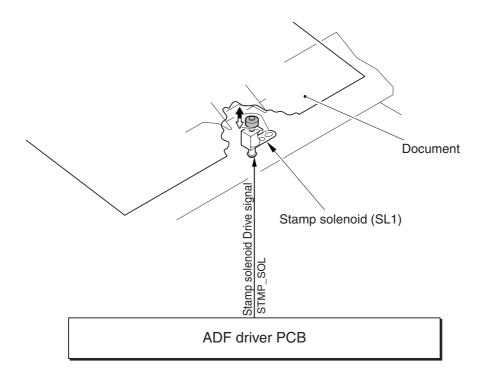


Figure 2-501

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.

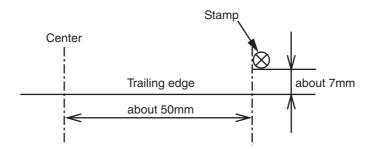


Figure 2-502

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

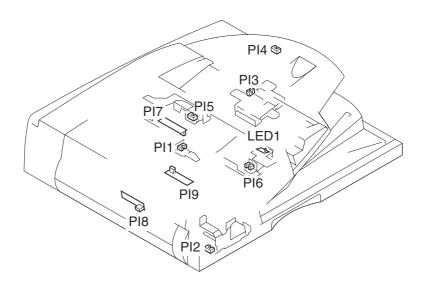


Figure 2-601

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

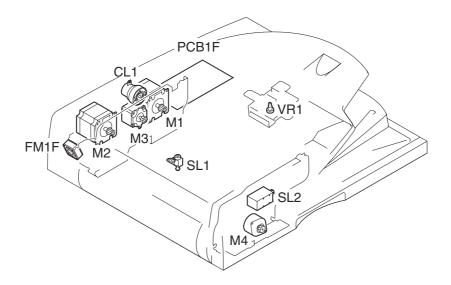


Figure 2-602

Category	Symbol	Name
Motor	M1	Pickup motor
	M2	Feed motor
	М3	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

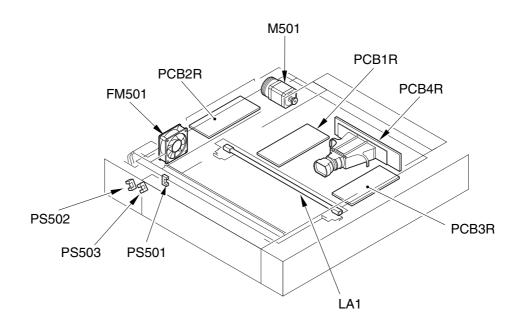


Figure 2-603

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
PCB	PCB1R	Reader controller PCB
	PCB2R	Interface PCB
	PCB3R	Inverter PCB
	PCB4R	CCD/AP PCB

Table 2-603

3. CONTROLLER

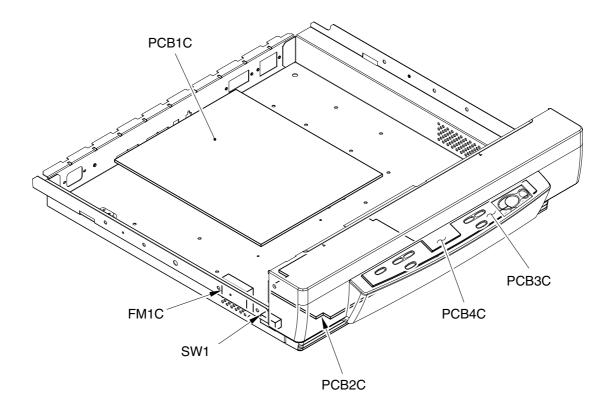


Figure 2-604

Category	Symbol	Name
Switch	SW1	Power switch
Fan	FM1C	Cooling fan
PCB	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

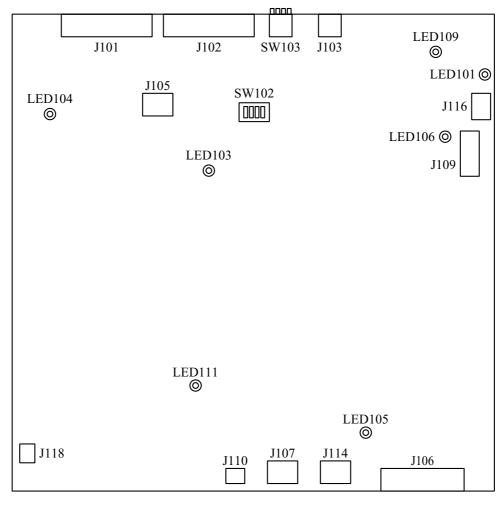


Figure 2-701

Connector		Description
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

Switch	Description
SW102	For factory/design Do not use in market.
	Setting at shipping
	ON 1 2 3 4
SW103	For SCSI setting 1 to 3: SCSI ID setting 4: Terminator setting At shipping SCSI ID: 2 Terminator: ON
	IDO OFF OFF OFF ID1 ON OFF OFF ID2 OFF ON OFF ID3 ON ON OFF ID4 OFF OFF ON ID5 ON OFF ON ID6 OFF ON ON ID7 ON ON ON
	1 2 3 4

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

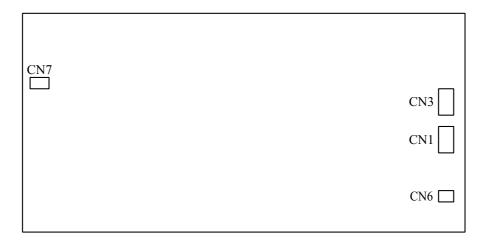


Figure 2-702

Connector		Description
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		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

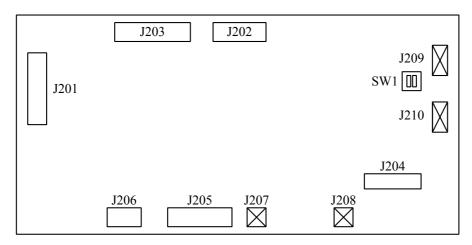


Figure 2-704

Conn	ector	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

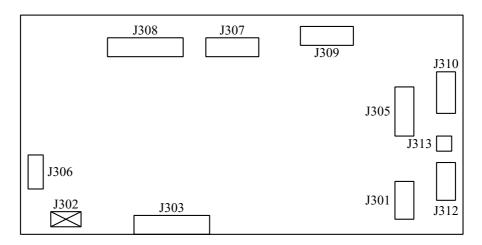


Figure 2-705

Conn	ector	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.

Figure 2-709

3. Inverter PCB

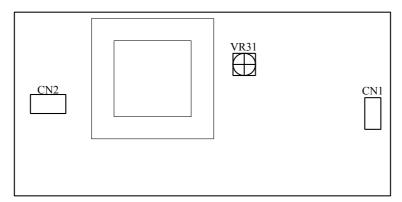


Figure 2-706

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

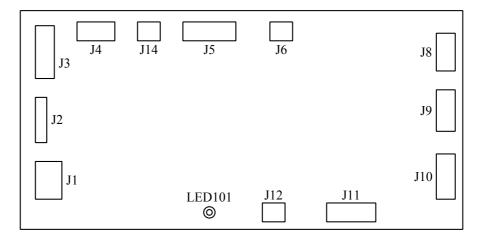


Figure 2-707

Connector Description			
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 se 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, pressur motor	
J10	8P	Pickup clutch, delivery reversal motor	
J11	6P	Pickup motor	
J12	3P	Cooling fan	
J14	3P	Registration sensor	

Table 2-711

LED	Description
LED101	24VDC supply: Lit*

Note:LED101/106 are extinguished during sleep.

Table 2-712

CHAPTER 3

DISASSEMBLY & REASSEMBLY

I.	MAIN UNIT3-1	III.	READER	3-35
II.	FEEDER3-5	IV.	CONTROLLER	3-52

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.

1. Feeder

1) 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.

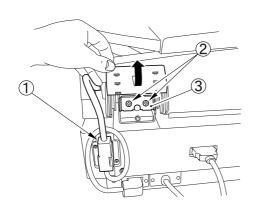


Figure 3-101

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

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

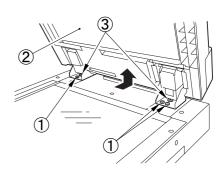


Figure 3-102

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.

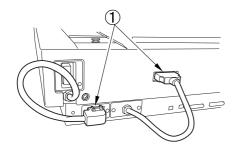


Figure 3-103

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

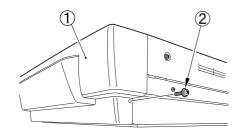


Figure 3-104

4) Remove the 2 fitting parts ① (marked with \triangle) 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.

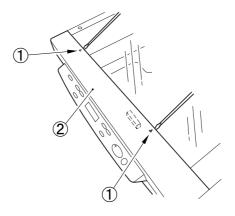


Figure 3-105

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

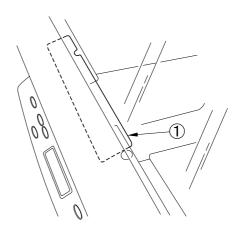


Figure 3-106

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

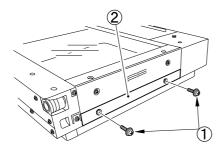
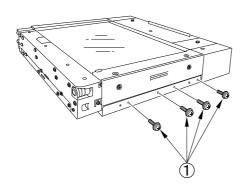


Figure 3-107

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



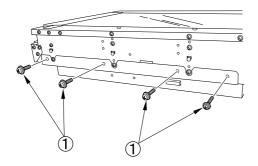


Figure 3-108

7) 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.

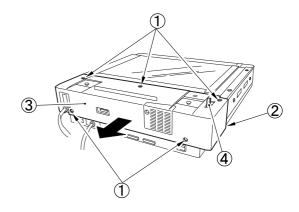
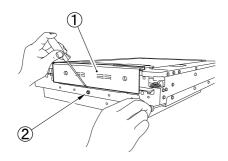


Figure 3-109

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

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.



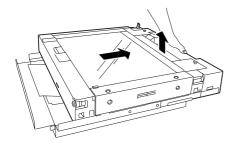


Figure 3-110

9) Hold tightly the reader and lift it up.

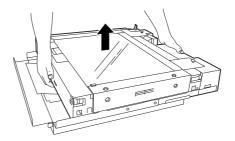


Figure 3-111

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.

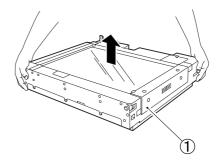


Figure 3-112

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

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

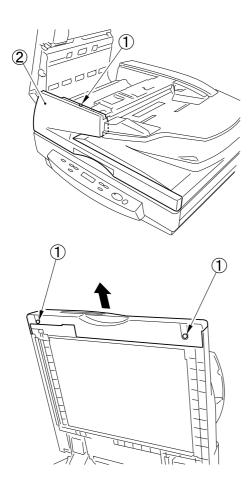


Figure 3-201

2. Rear Cover

1) 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.

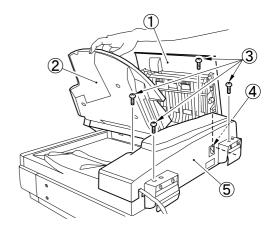


Figure 3-202

3. Lower Left Cover

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

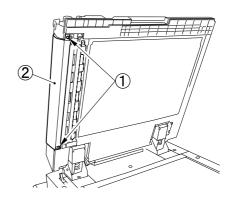


Figure 3-203

4. Feeder Cover

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

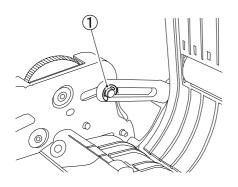


Figure 3-204

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

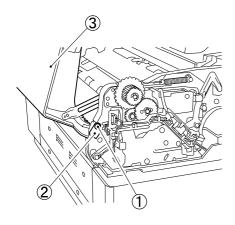


Figure 3-205

5. Inside Cover

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

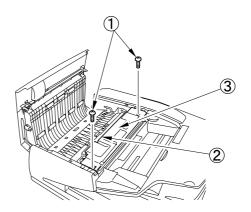


Figure 3-206

B. Drive System

1. Pickup Motor

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

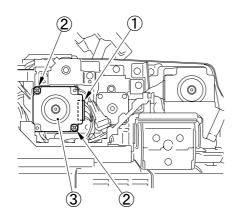


Figure 3-207

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.

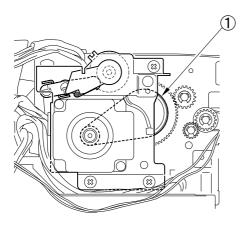


Figure 3-208

2. Feed Motor

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

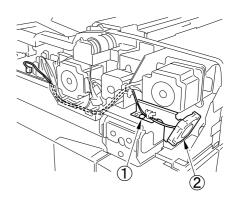


Figure 3-209

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

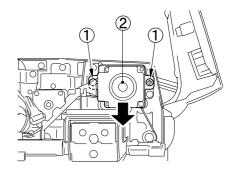


Figure 3-210

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

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

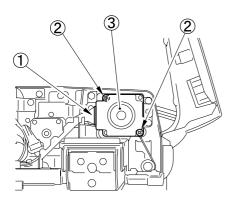


Figure 3-211

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

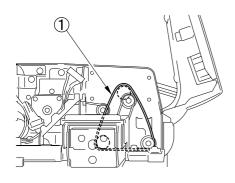


Figure 3-212

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.

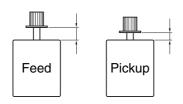


Figure 3-213

3. Delivery Reversal Motor

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

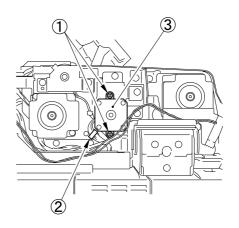


Figure 3-214

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

4. Pressure Motor

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

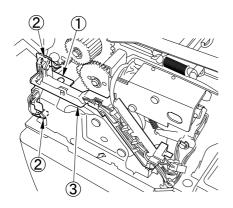


Figure 3-215

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

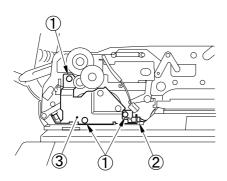


Figure 3-216

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

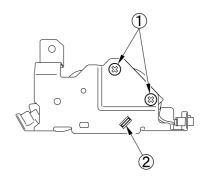


Figure 3-217

5) Remove the 2 screws ①, disconnect the connector ②, and remove the timing belt③; then, detach the pressure motor ④.

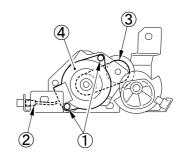


Figure 3-218

Note: When installing the pressure motor drive unit ①, place the pressure lever ② on the upper part of the driving cam.

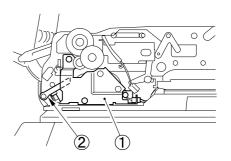


Figure 3-219

5. Drive Unit

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

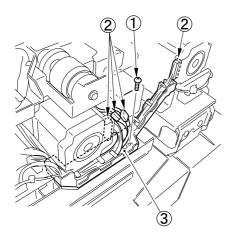


Figure 3-220

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

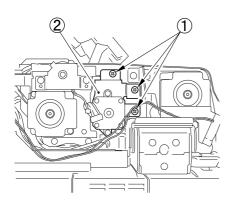


Figure 3-221

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

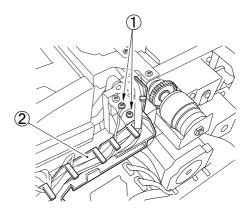
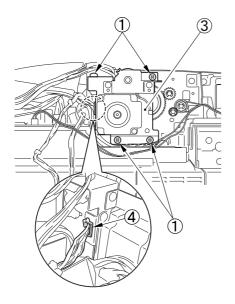


Figure 3-222

6) 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.



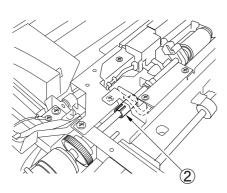


Figure 3-223

Precautions on assembly

- 1) Be careful not to get cables caught or pinched.
- 2) 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.

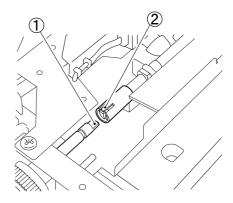


Figure 3-224

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.

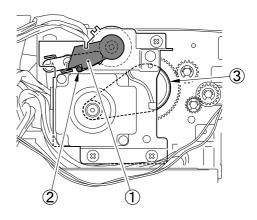


Figure 3-225

C. Feeding System

1. Pickup Roller Unit

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

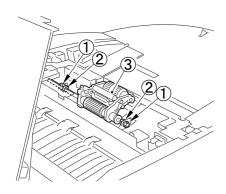


Figure 3-226

2. Pickup Roller/Feeding Roller

- 1) Remove the pickup roller unit.
- 2) 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.

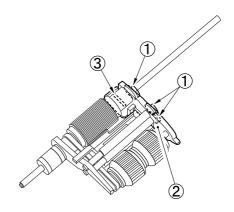


Figure 3-227

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.

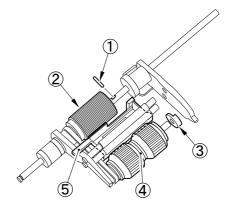


Figure 3-228

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.

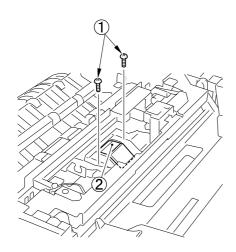


Figure 3-229

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

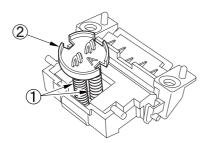


Figure 3-230

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.

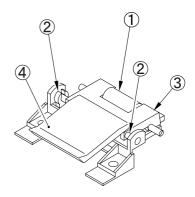


Figure 3-231

Notes on reassembly:

- 1) 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.

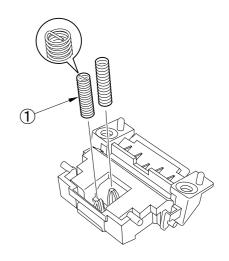


Figure 3-232

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)

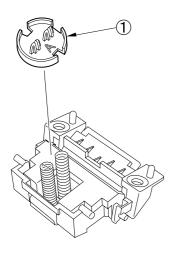


Figure 3-233

4. No. 1 Registration Roller Follower

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

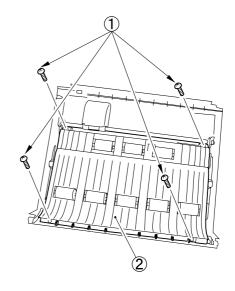


Figure 3-234

4) 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.

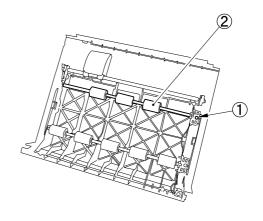


Figure 3-235

5. No. 1 Registration Roller

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

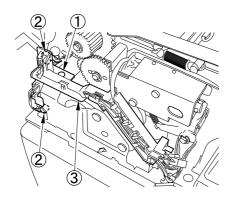


Figure 3-236

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.

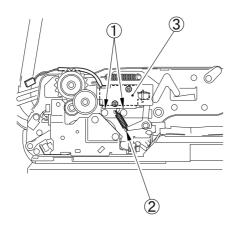


Figure 3-237

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.

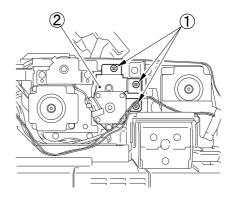


Figure 3-238

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

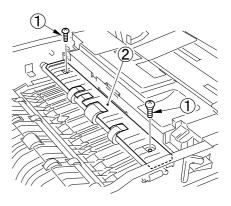


Figure 3-239

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

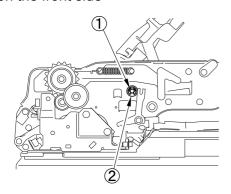


Figure 3-240

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

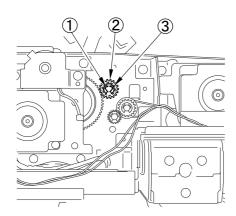


Figure 3-241

9) Remove the No. 1 registration roller ①.

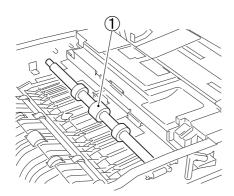


Figure 3-242

6. No. 2 Registration Roller Follower

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

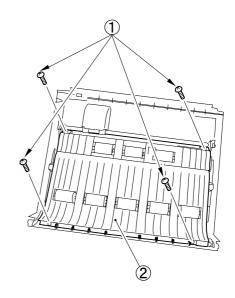


Figure 3-243

4) 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.

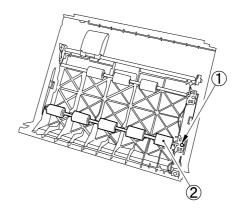


Figure 3-244

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.

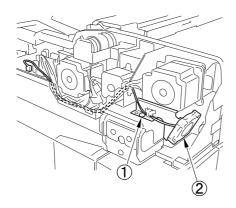


Figure 3-245

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

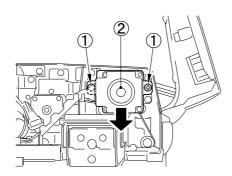


Figure 3-246

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

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

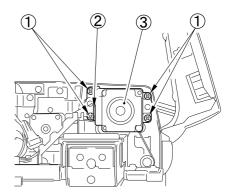


Figure 3-247

6) 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.

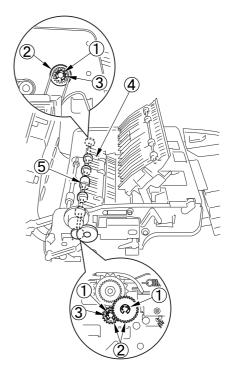


Figure 3-248

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

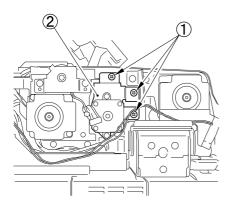


Figure 3-249

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.

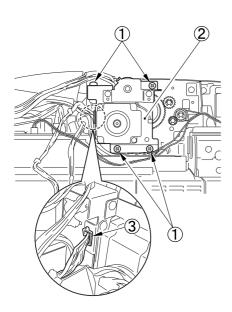


Figure 3-250

Note:For precautions on drive unit installation, see the "B. Drive System, 5. Drive Unit".

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

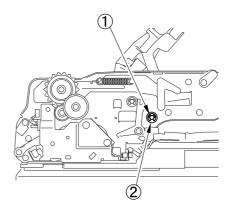


Figure 3-251

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

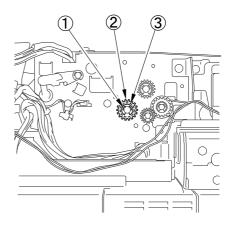


Figure 3-252

7) Remove the delivery reversal upper roller ①.

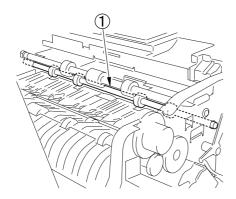


Figure 3-253

9. Read Roller 1

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

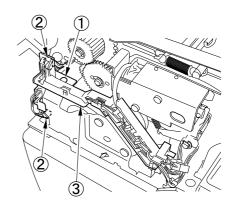


Figure 3-254

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

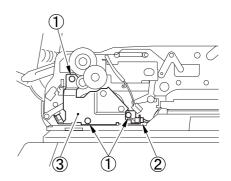


Figure 3-255

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

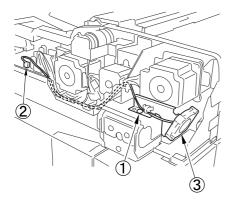


Figure 3-256

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

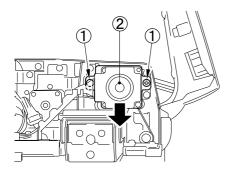


Figure 3-257

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

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

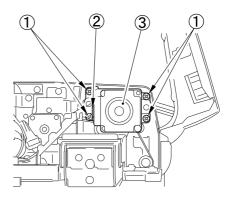


Figure 3-258

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

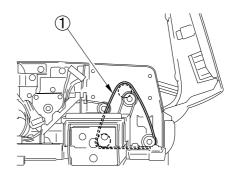


Figure 3-259

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

9) 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.

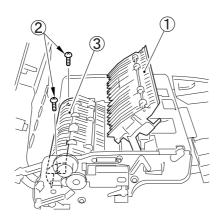


Figure 3-260

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.

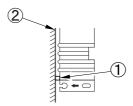


Figure 3-261

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

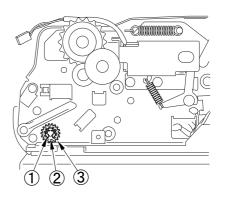


Figure 3-262

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

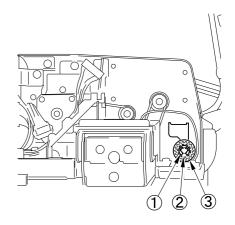


Figure 3-263

12) Release the pressure spring ①.

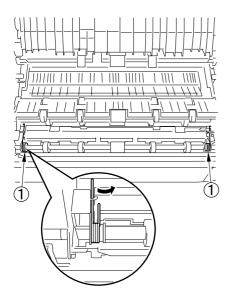


Figure 3-264

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.

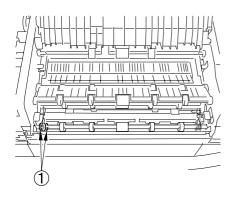


Figure 3-265

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

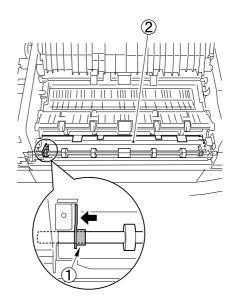


Figure 3-266

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.

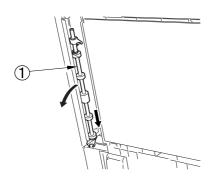


Figure 3-267

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.

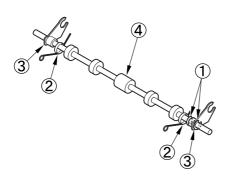


Figure 3-268

10. Platen Roller

1) 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.

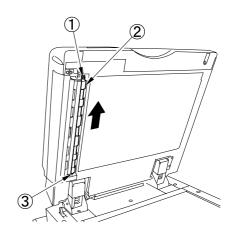


Figure 3-269

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 bushings③; then, detach the platen roller ④.

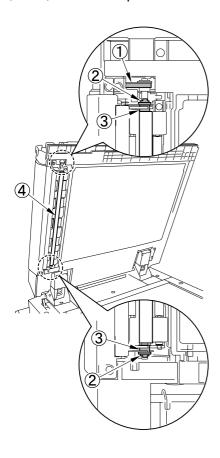


Figure 3-270

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

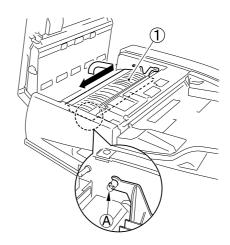


Figure 3-271

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

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

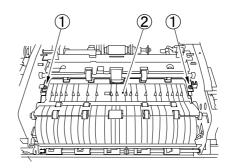


Figure 3-272

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

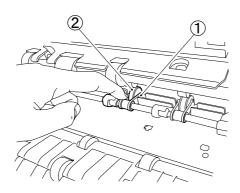


Figure 3-273

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

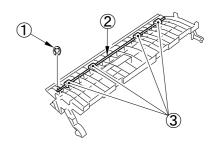


Figure 3-274

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

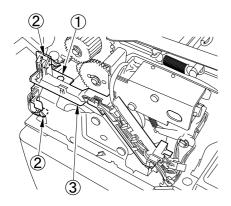


Figure 3-275

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

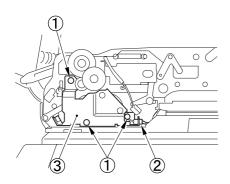


Figure 3-276

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

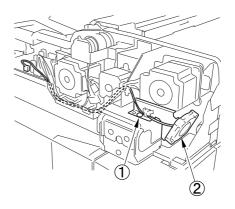


Figure 3-277

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

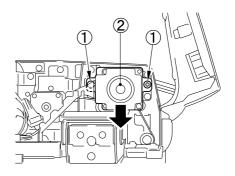


Figure 3-278

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

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

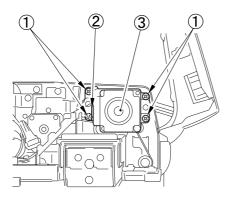


Figure 3-279

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

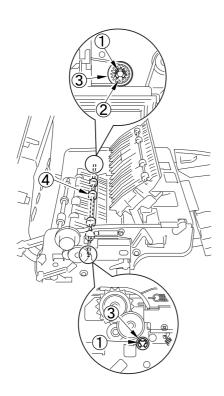
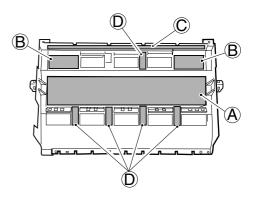


Figure 3-280

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).



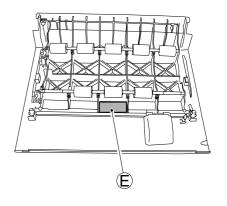


Figure 3-281

D. Control System

1. ADF Driver PCB

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

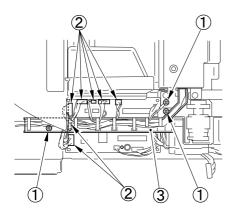


Figure 3-282

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

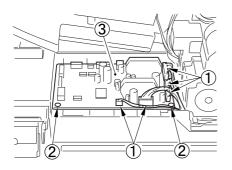


Figure 3-283

2. Document Width Volume

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

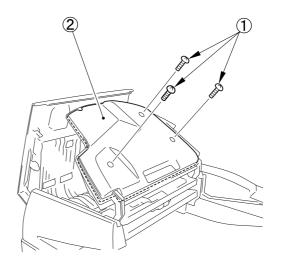


Figure 3-284

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

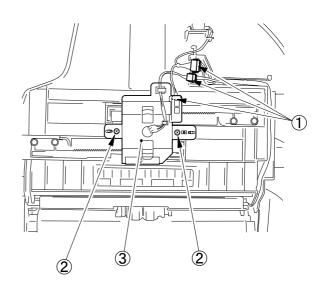


Figure 3-285

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.

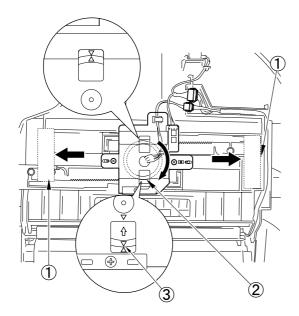


Figure 3-286

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.

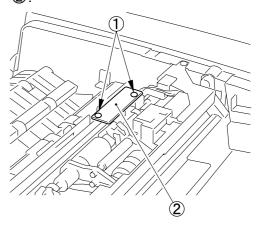


Figure 3-287

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.
- 2) 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.

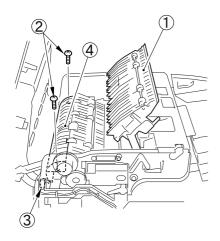


Figure 3-288

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.

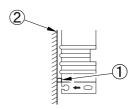


Figure 3-289

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

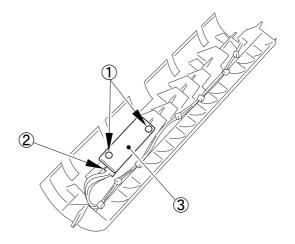


Figure 3-290

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

5. Delivery Reversal Sensor

1) 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.

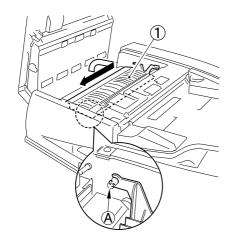


Figure 3-291

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

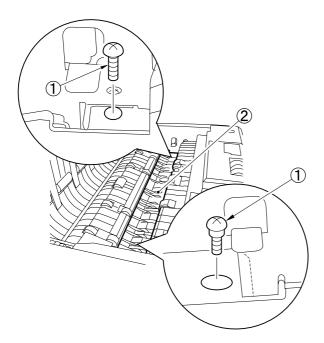


Figure 3-292

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

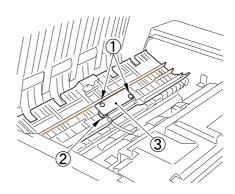


Figure 3-293

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

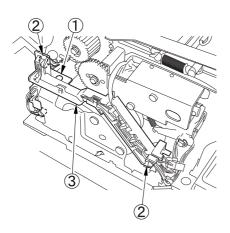


Figure 3-294

3) 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.

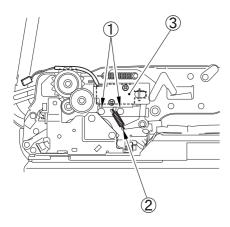


Figure 3-295

Note: Upon assembly, insert the solenoid plunger into the arm notch.

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

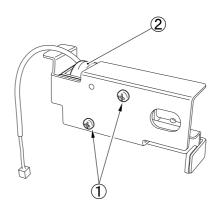


Figure 3-296

7. Pickup Clutch Unit

1) 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.

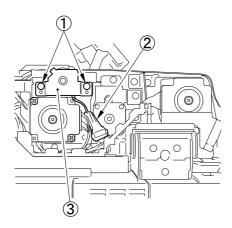
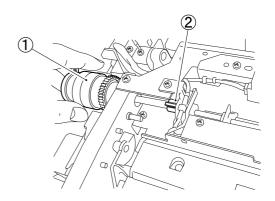


Figure 3-297

2) 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.



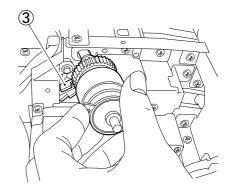


Figure 3-298

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.
- 2) Insert the projection ② on the mounting plate into the groove ① for clutch positioning.

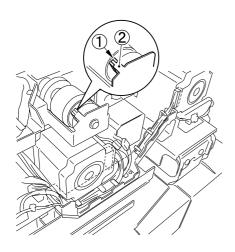


Figure 3-299

8. Cooling Fan

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

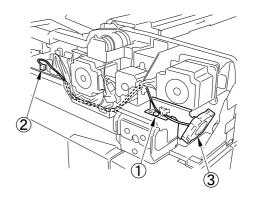


Figure 3-300

III. READER

A. Exterior

1. Platen Glass

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

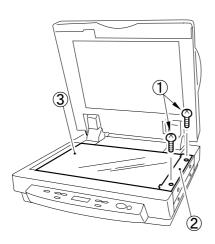


Figure 3-301

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.

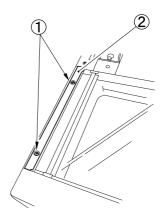


Figure 3-302

2) Pull out the ADF reading glass ①.

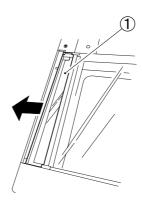


Figure 3-303

3. Operation Panel Assembly

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

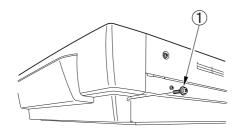


Figure 3-304

2) Remove the 2 fitting parts 1 (marked with \triangle) 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.

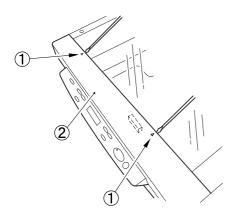


Figure 3-305

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

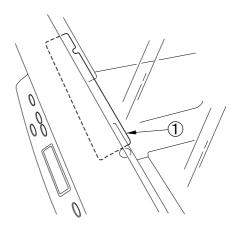


Figure 3-306

4. Reader Left/Right Covers

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

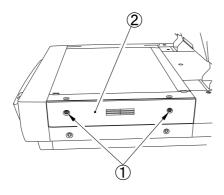


Figure 3-307

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

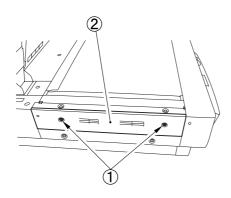


Figure 3-308

5. Reader Rear Cover

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

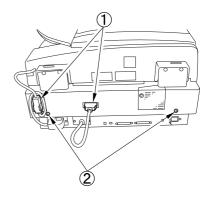


Figure 3-309

2) Flip open the rubber covers ① of the left and right hinge parts, remove the screws② (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.

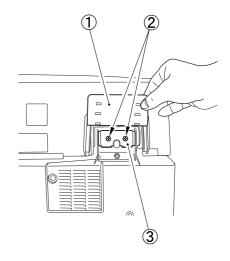


Figure 3-310

3) 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.

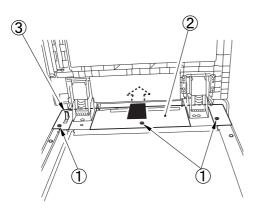


Figure 3-311

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

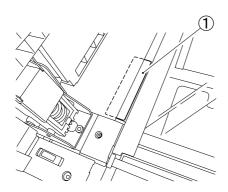
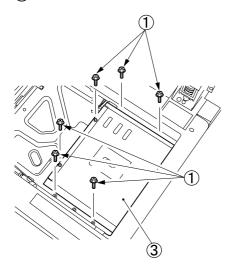


Figure 3-312

B. Drive/Control System

1. CCD Unit Cover

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



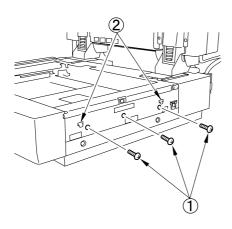


Figure 3-313

2. Scanning Lamp

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

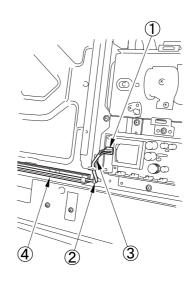


Figure 3-314

4) 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.

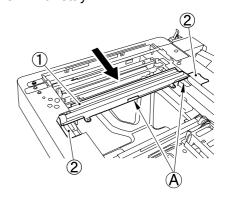


Figure 3-315

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

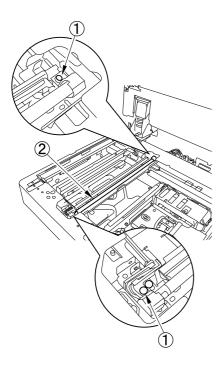


Figure 3-316

3. Reader Controller PCB

- Remove the platen glass and reader right cover.
- 2) Detach the CCD unit cover.
- 3) Disconnect the 5 flat cables ① and the connector ② then, remove the 4 screws③, and detach the reader controller PCB④.

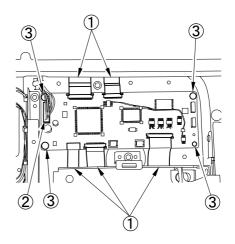


Figure 3-317

Note: Disconnecting the flat cable

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

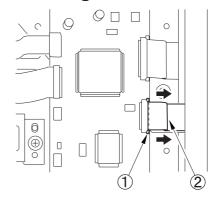


Figure 3-318

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

4. Interface PCB

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

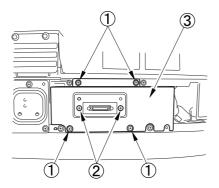


Figure 3-319

3) 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.

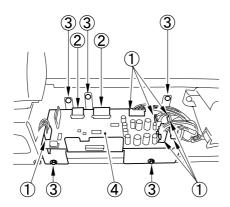


Figure 3-320

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

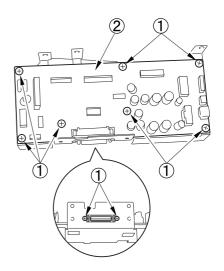


Figure 3-321

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.

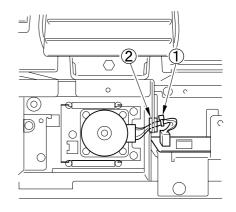


Figure 3-322

5. Inverter PCB

- Remove the platen glass and reader right cover.
- 2) Detach the CCD unit cover.
- 3) 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.

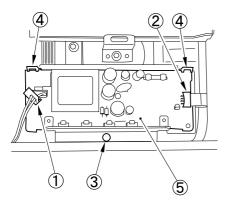


Figure 3-323

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

6. CCD Unit

- 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.

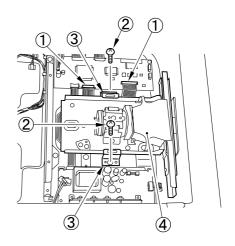


Figure 3-324

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

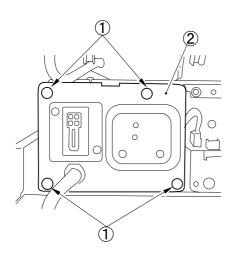


Figure 3-325

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

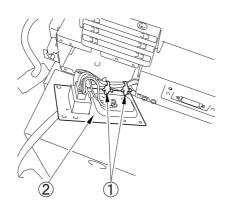


Figure 3-326

4) Remove the 3 screws ① and the 2 springs ②, and slide the scanner motor③ toward the arrow.

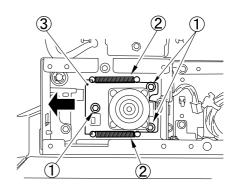


Figure 3-327

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

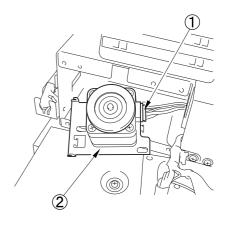
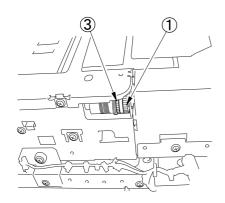


Figure 3-328

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.



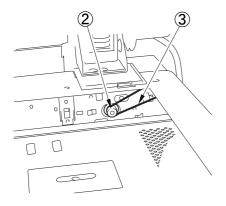


Figure 3-329

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.

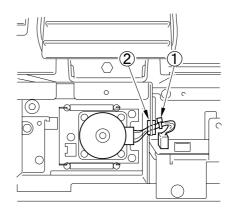


Figure 3-330

8. ADF Opening Sensor

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

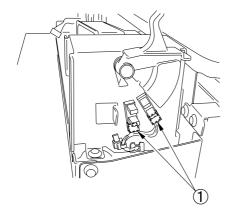


Figure 3-331

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

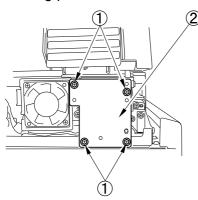


Figure 3-332

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

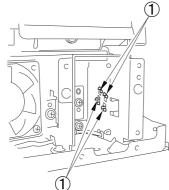


Figure 3-333

9. Scanner HP Sensor

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

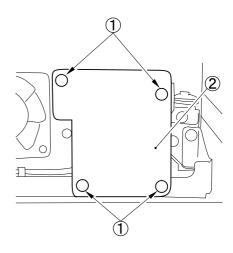


Figure 3-334

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

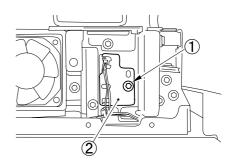


Figure 3-335

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

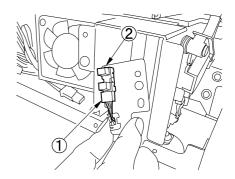


Figure 3-336

10. Cooling Fan

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

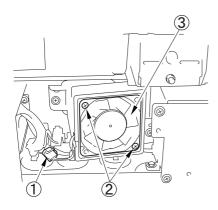


Figure 3-337

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.
- 4) 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.

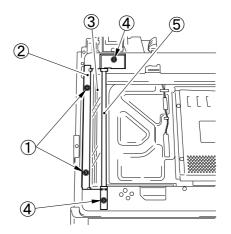


Figure 3-338

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

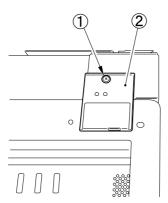


Figure 3-339

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

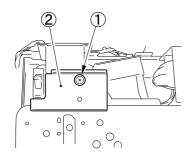


Figure 3-340

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

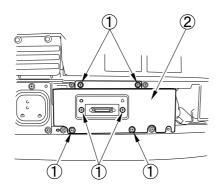


Figure 3-341

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

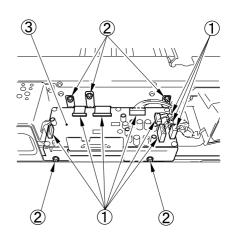


Figure 3-342

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.

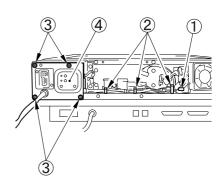


Figure 3-343

10) Free the harness from the wire saddle ①, and remove the 6 screws ②; then, detach the motor frame ③.

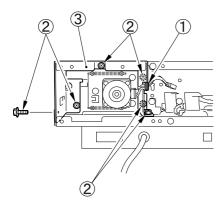


Figure 3-344

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

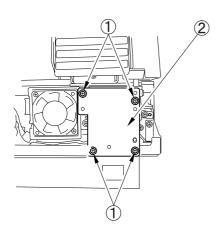


Figure 3-345

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

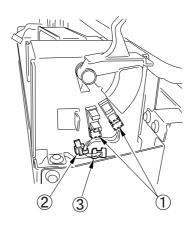


Figure 3-346

13) Free the harness from the wire saddle ①, and remove the 6 screws ②; then, detach the ADF opening sensor base ③.

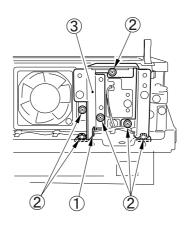


Figure 3-347

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

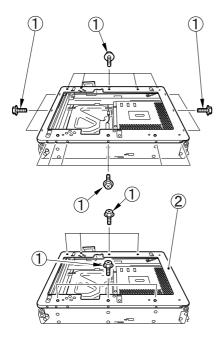


Figure 3-348

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.

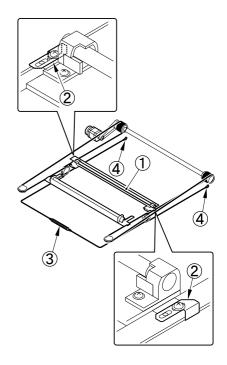
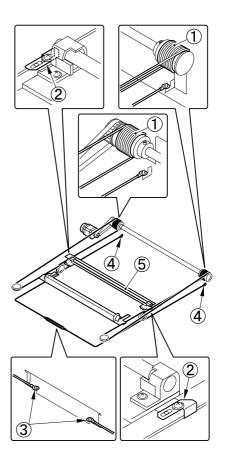


Figure 3-349

Note: Mounting

1) 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.



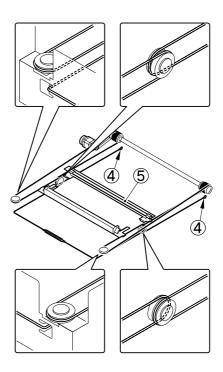


Figure 3-350

 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.

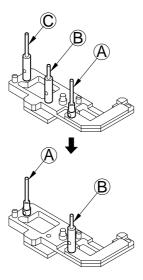


Figure 3-351

3) 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.

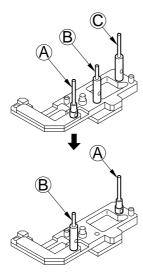
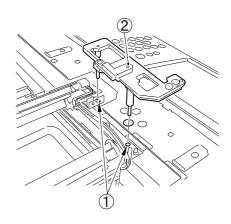


Figure 3-352

4) 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.



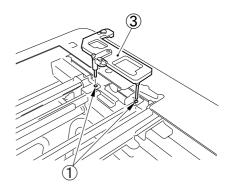


Figure 3-353

- 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.

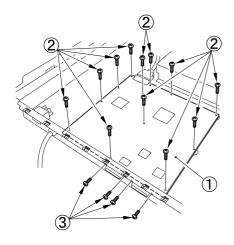


Figure 3-401

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.

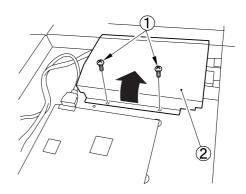


Figure 3-402

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

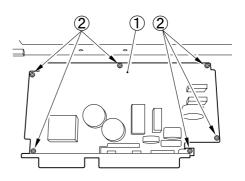


Figure 3-403

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.

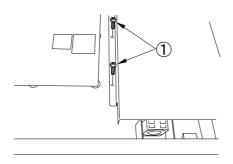


Figure 3-404

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

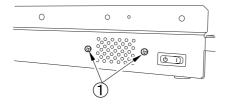


Figure 3-405

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

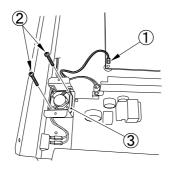


Figure 3-406

4. Operation Panel Assembly

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

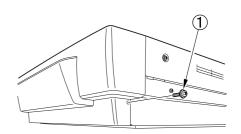


Figure 3-407

3) 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.

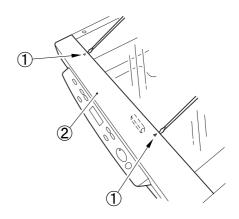


Figure 3-408

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

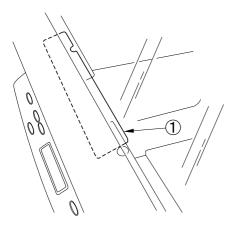


Figure 3-409

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.

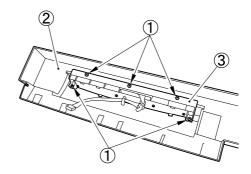


Figure 3-410

6. Switch PCB/LCD Unit

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

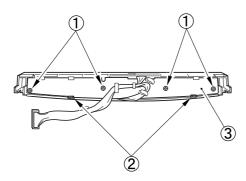


Figure 3-411

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

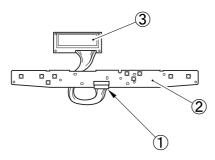


Figure 3-412

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

CHAPTER 4

INSTALLATION & MAINTENANCE

l.	SELECTION OF LOCATION4-1	IV.	PERIODICALLY REPLACED PARTS	34-8
II.	UNPACKING AND INSTALLATION4-2	V.	CONSUMABLE PARTS AND	
III.	STAMP UNIT INSTALLATION		CONSUMABLES	4-9
	PROCEDURE4-6	VI.	PERIODIC SERVICING	4-11

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.

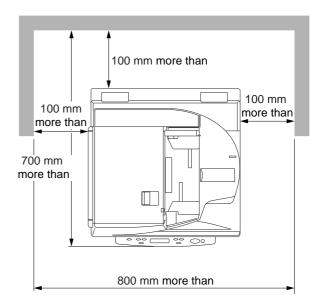


Figure 4-101

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
1	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.	4567

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.	CORRESPONDE CONTROL OF
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	
		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	
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 approx. 3 cm Ferrite core	
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.	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.

[△: Cleaning, ●: Replace, ☆: Lubricate, □: Adjust, ©: Check]

	[Δ. Ο	icariirig, C	Intervals		cate, □. Adjust, ⊚ . Checkj
Unit name	Location/Parts	0.4 million	one million	two millions	Remarks
Feeder	Pickup roller	•			If replacement is
	Feeding roller	•			unnecessary, clean as follows: wipe with cloth
	Separation pad assembly (3 parts)	•			slightly moistened with water, then wipe dry.
	Dust-collecting tape	•			
	No. 1 registration roller	Δ	•		Wipe with cloth slightly
	No. 2 registration roller	Δ	•		moistened with water, then wipe dry.
	Read roller 1	Δ		•	
	Platen roller	Δ		•	
	Read roller 2	Δ		•	
	Reversal lower roller	Δ		•	
	Delivery reversal lower roller	Δ		•	
	Delivery reversal upper roller	Δ			
	No. 1 registration roller follower	Δ			
	No. 2 registration roller follower	\triangle			
	Read roller follower 1	Δ			
	Platen roller follower 1	Δ			
	Platen roller follower 2	Δ			

Figure 4-601a

Unit	Loosting/Douts	Intervals			Barranda
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			moistened with water, then wipe dry.
	Document pass parts of feed guide, etc.	Δ			
	Scraper of feed guide, etc.	Δ			
	Black pressure board	Δ			
	White sheet of platen parts	Δ			
	Post-separation sensor	Δ			Clean the detection part
	Read sensor	Δ			and prism with an air 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			•	

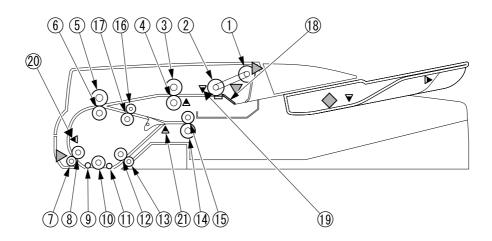
Figure 4-601b

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

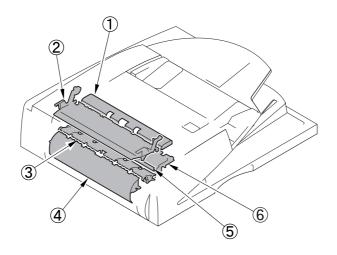


- ① Pickup roller
- 2 Feeding roller
- ③ No. 1 registration roller follower
- ④ No. 1 registration roller
- ⑤ No. 2 registration roller follower
- 6 No. 2 registration roller
- 7 Read roller 1 follower
- 8 Read roller 1
- Platen roller follower 1
- 10 Platen roller

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

Figure 4-601

2) Feed guide related

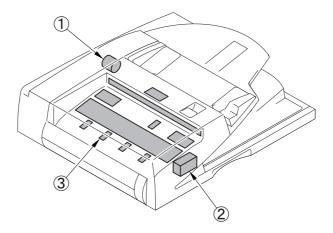


- ① Pre-registration guide
- 2 Opening guide
- ③ Reversal guide

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

Figure 4-602

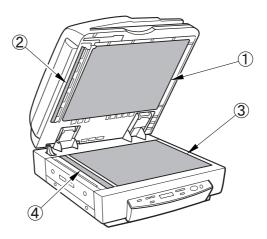
 Dust-collection tape, clutch, solenoid
 Dust-collection tape is located inside the feeder cover.



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

Figure 4-603

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)

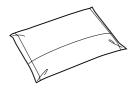


Figure 4-606

* Procedure

1) Wipe the ADF reading glass ① using cleaning tissue.

Note:Here, do not use silicone oil on the cleaning tissue.

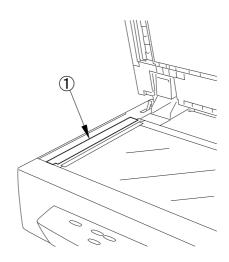


Figure 4-607

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



Figure 4-608

- 3) 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

I.	ERROR DISPLAY AND REMEDY5-1	V.	AFTER REPLACING PARTS5-46
	SERVICE MODE5-4		
III.	USER MODES5-34	VII.	IMAGE TROUBLESHOOTING5-54
IV.	FEEDER ADJUSTMENT5-35		

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	The feeder cover is open. → Close the feeder cover.
2	C o v e r O p e n 0 2	The feeder is open. → Close the feeder.
3	Feeding Miss	Pickup error → Check the document and try again. If the document does not go through the ADF, scan it using the FB.
4	J a m x x x x	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 → Check the settings with a job registration tool and try again.
6	D e t e c t M i x D o c .	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 o r E x x x x x x x x x x x x x x x x x x	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	Waith Display does not change from above message to "Ready".	An anomaly occurred inside the main unit. → 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
	Feeder open
JAM 0146	Feeder cover open
JAM 0148)
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 driver PCB 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 connection 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."





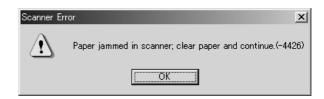






Figure 5-101

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.

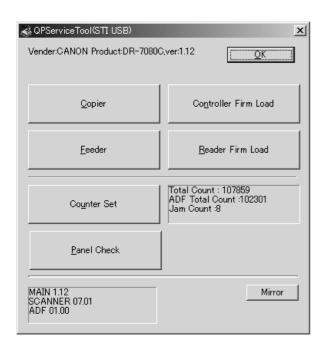


Figure 5-201

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

- Copier
 Service mode related to reader
- Feeder Service mode related to feeder
- Counter Set Counter change
- Panel Check
 Operation panel check
- Controller Firm Load Controller firmware change
- Reader Firm Load
 Reader and feeder firmware change
- 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.
- 3) 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.

- 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".
- 4) 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.



Figure 5-202



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.



Figure 5-204

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.

Co	Configuration/Name		Description
Co	Copier		Service mode related to reader
	Display		Control display mode
	CCD		Display of measurement values related to CCD
		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 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/O		PCB I/O port display mode
	R-	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

Configuration/Name	Description
Feeder	Service mode related to feeder
DISPLAY	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.
ADJUST	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%)
FUNCTION	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

Table 5-201f

Configuration/Nam	e Description
FEED-ON	Feed operation check
	Executes the selected feed mode.
	Feed mode selection is done with [FEED-CHK].
FEED-CH	
	0: Simplex feed
	1: Duplex feed
	2: Simplex feed with stamp 3: Duplex feed with stamp
FANCON	· · · · · · · · · · · · · · · · · · ·
FAN-ON	Fan operation check Operates the selected fan.
	Fan selection is done with [FAN-CHK].
FAN-CHK	Fan selection
FAN-CITA	0: Cooling fan of feeder
CL-ON	Clutch operation check
	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
INT-ASK	document pickup tray (A5R)
	Records a value when A5R paper is set in document pickup tray.
	Execute after replacing reader controller PCB.
TRY-LTR	Automatic adjustment of paper width detection reference point 1 in
	document pickup tray (LTR)
	Records a value when LTR paper is set in document pickup tray.
	Then, following execution of this item, execute TRY-LTRR.
TDVITDD	Execute after replacing reader controller PCB.
TRY-LTRR	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	
THOSE OF	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
	rotated in this mode.
OPTION	Specification setting using feeder function
LS-DBL	ON/OFF switch for high-speed duplex mode
	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-SV	
January 1	Set when stamp solenoid is attached as option.
	None/Stamp (Default: None)
	None/Staffip (Default, None)

Table 5-201g

5. Copier

1) Screen

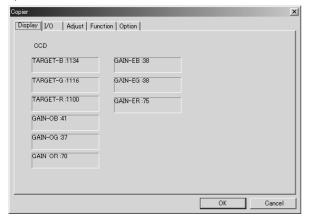


Figure 5-205a

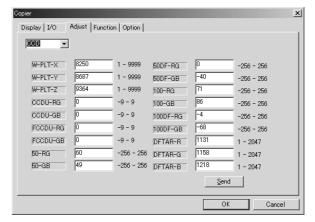


Figure 5-205d

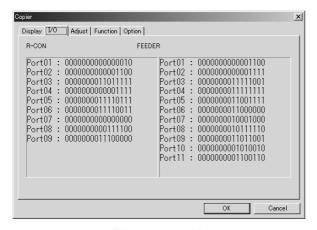


Figure 5-205b

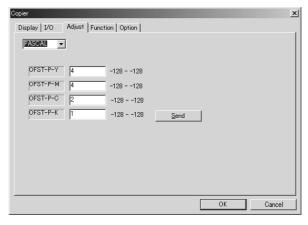


Figure 5-205e

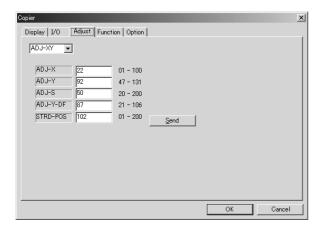


Figure 5-205c

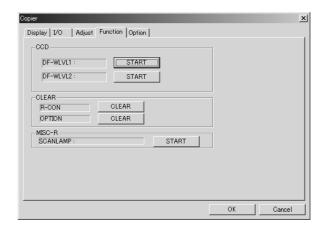


Figure 5-205f

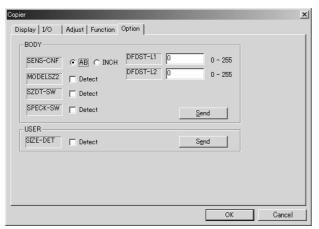


Figure 5-205g

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.

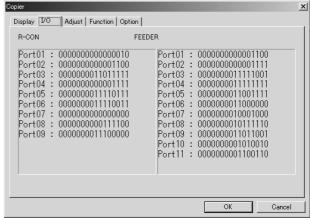
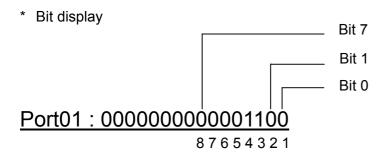


Figure 5-206



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 current 1	
-	1	Delivery reversal motor 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.

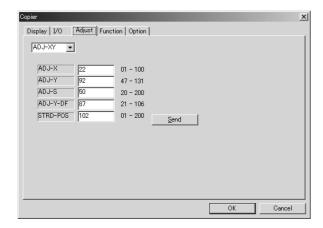


Figure 5-207

- 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.



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

Left rear of platen glass = origin

X← (0,0)

ABC

Y

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.

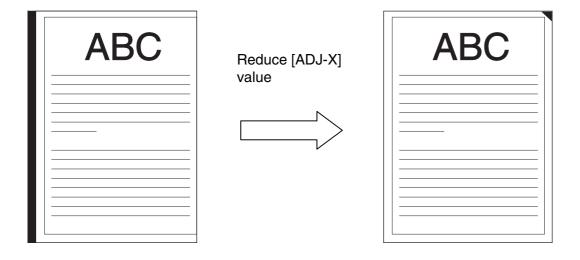


Figure 5-210

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.

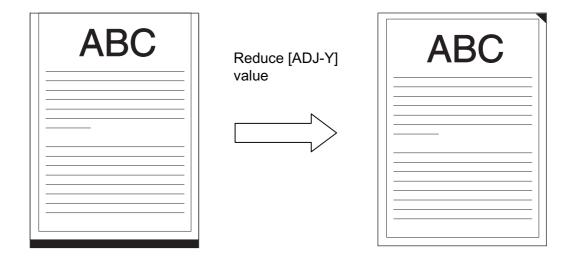


Figure 5-211

Direction in ADF mode
Document read status
Center rear of ADF reading glass = origin

Read image

Content rear of ADF reading glass = origin

ABC

ABC

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.

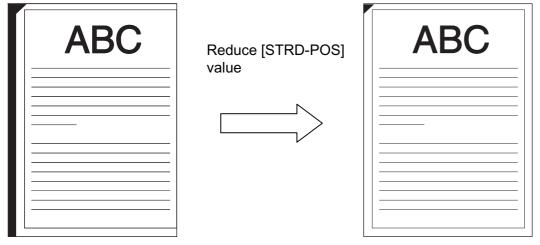


Figure 5-213

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.

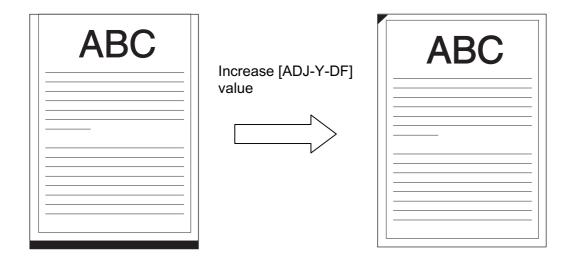


Figure 5-214

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].

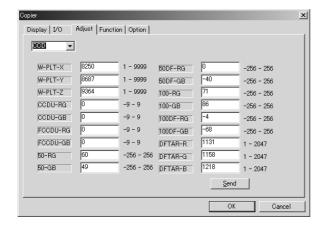


Figure 5-215

- 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.



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.

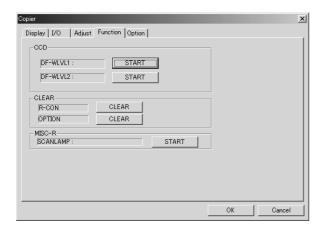


Figure 5-217

- Operation Procedure
 - a) Clean the platen glass and the rollers.
 - 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.

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



Figure 5-218

- 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.

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.



Figure 5-219

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



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. [SCANLAMP] 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.

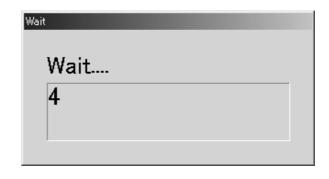


Figure 5-221

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

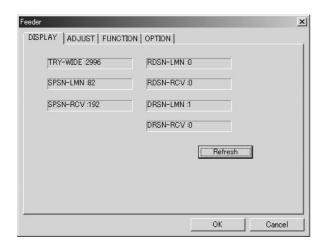


Figure 5-222

d) End the service mode.

6. Feeder

1) Operation screen



DISPLAY ADJUST FUNCTION OPTION |

LS-DBL
High Speed Duplex Mode: • ON • OFF
STAMP-SW

Stamp
Stamp
OK Cancel

Figure 5-223a

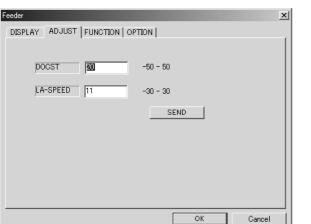


Figure 5-223d

Figure 5-223b

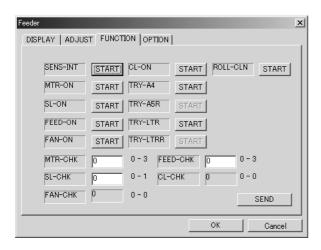


Figure 5-223c

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.

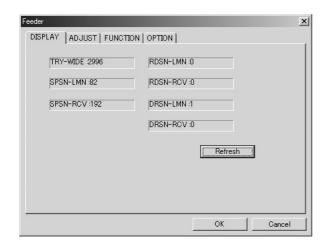


Figure 5-224

• 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.

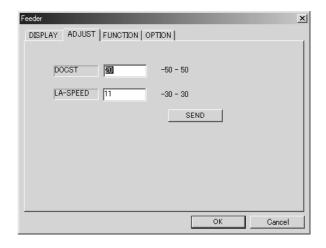


Figure 5-225

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.



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.

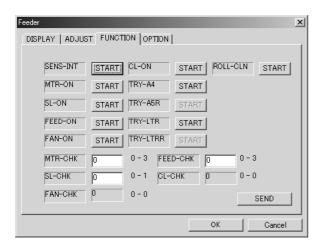


Figure 5-227

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.



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.



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.

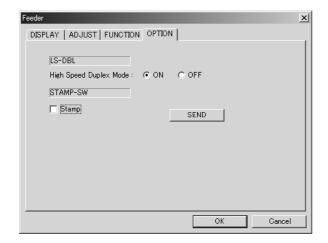


Figure 5-230

- [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.

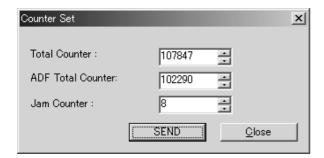


Figure 5-231

- 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.

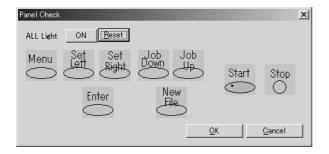


Figure 5-232

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.



Figure 5-233

- 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	COPIER	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. ^{y)}	//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.	Item	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.

- ① Opening angle (90°)
- ② Tray width adjustment*1
- 3 Sensor output*1
- 4 Tilt correction
- ⑤ Height adjustment
- 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.

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

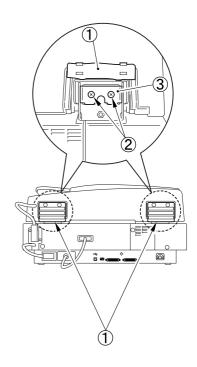


Figure 5-401

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.

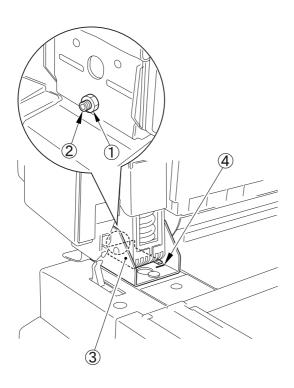


Figure 5-402

6. Height Adjustment

1) 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].

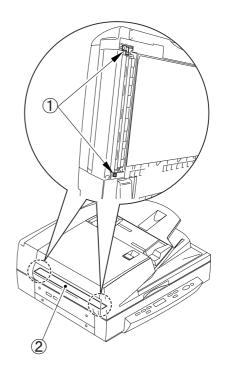


Figure 5-403

[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.

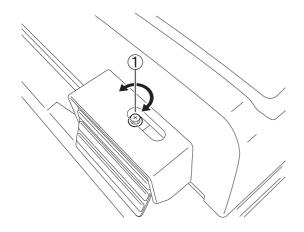


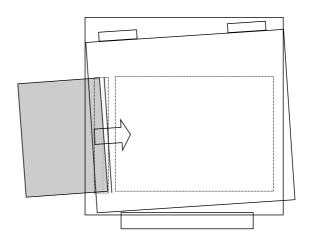
Figure 5-404

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.



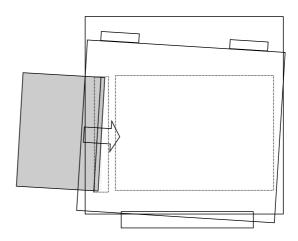


Figure 5-405

1) 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.

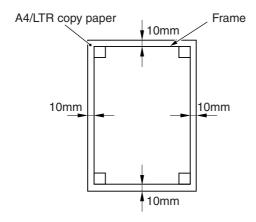


Figure 5-406

2) Check the right angle of leading edge A of the image. If adjustments are necessary, perform adjustments from step 3.

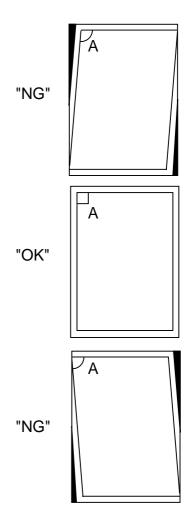


Figure 5-407

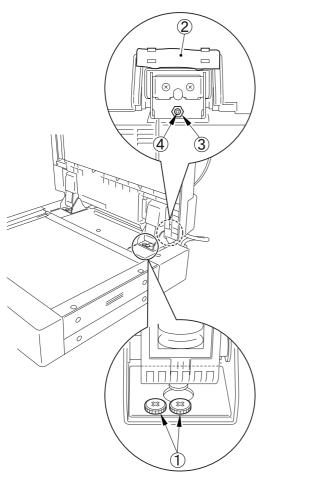
- 3) Loosen the 2 knurling screws ① at the front of the right hinge unit.
 - Next, flip over the rubber cover ② at the rear of the right hinge unit and loosen the fixing nut ③, then turn the hex socket head bolt ④ to make adjustment.

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.



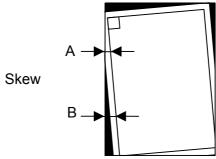


Figure 5-409

Figure 5-408

- 4) 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.
 - 2) 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.

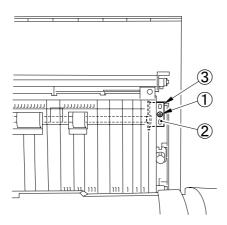


Figure 5-410

3) 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.

4) 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.

1) 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°.

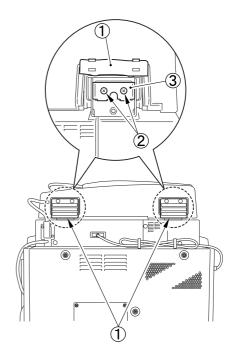


Figure 5-411

9. Magnification Adjustment

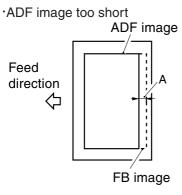
- 1) Prepare a test chart.
- Set the test chart on the platen glass and scan the image. Use this image as the FB image.
- Correctly set the same test chart on the document pickup tray and scan the image.
 Use this image as the ADF image.
- Compare the lengths in the feed direction of the FB image and 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.

5) Select service mode [Feeder>ADJUST> LA-SPEED] and perform adjustment by changing the value.
If ADF image is too short → Decrease the value (slows the feed speed).
If ADF image is too long → 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.



·ADF image too long

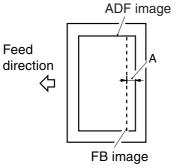


Figure 5-412

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.
- 3) 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.

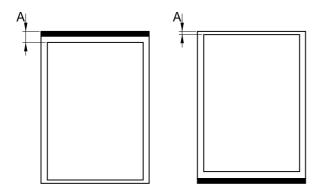


Figure 5-413

- 4) 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.

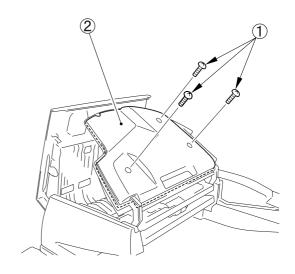


Figure 5-414

3) 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.

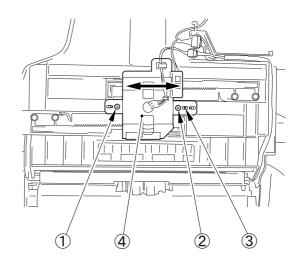


Figure 5-415

- 4) If image dimension [A] is too large, move the volume unit to the left. If it is too small, move it to the right.
- 5) 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.
- 3) 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.

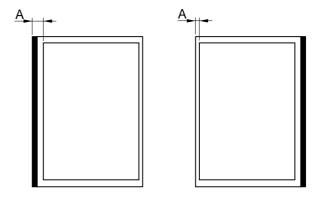


Figure 5-416

- 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.

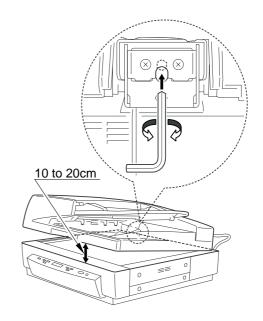


Figure 5-417

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		PCB	PCB		(0.13/000)	volume	9.000
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				

Table 5-501

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.

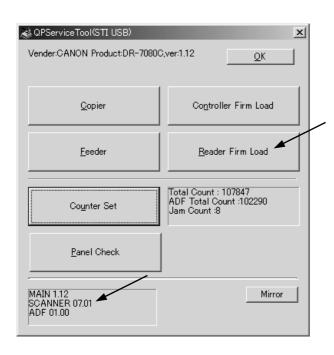


Figure 5-501

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 positionCopier>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

4) 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.

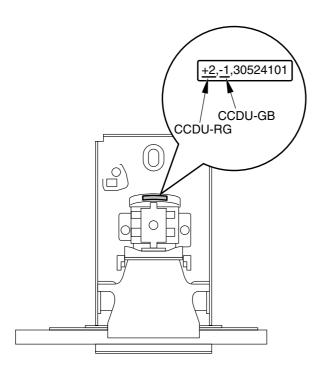


Figure 5-502

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.

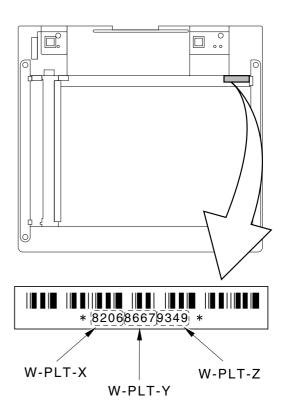


Figure 5-503

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.

1 AC power does not come on

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

Cause/Fault Location	Step	Check Item	Result	Action
Power cord connection	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 connection (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 connection (DC power supply)	5	Is connector on PCB properly connected?	NO	Properly connect connector.
,		Does LED light on DC controller PCB?	NO	Replace power supply PCB.
DC controller PCB 7		Is problem solved when DC controller 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 the order of turning power ON		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 connection (Motors)	2	Are connectors of motors, solenoids and clutches connected correctly?	NO	Connect connectors correctly.
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 specifications? (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 documents 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 outp	ut (complete	elv white, com	pletely black.	all gray)
	illiage is not outp	at (complete	Jiy Willico, Coll	ipicicly black,	an 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"?		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?		Connect reader and controller 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 connection	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)







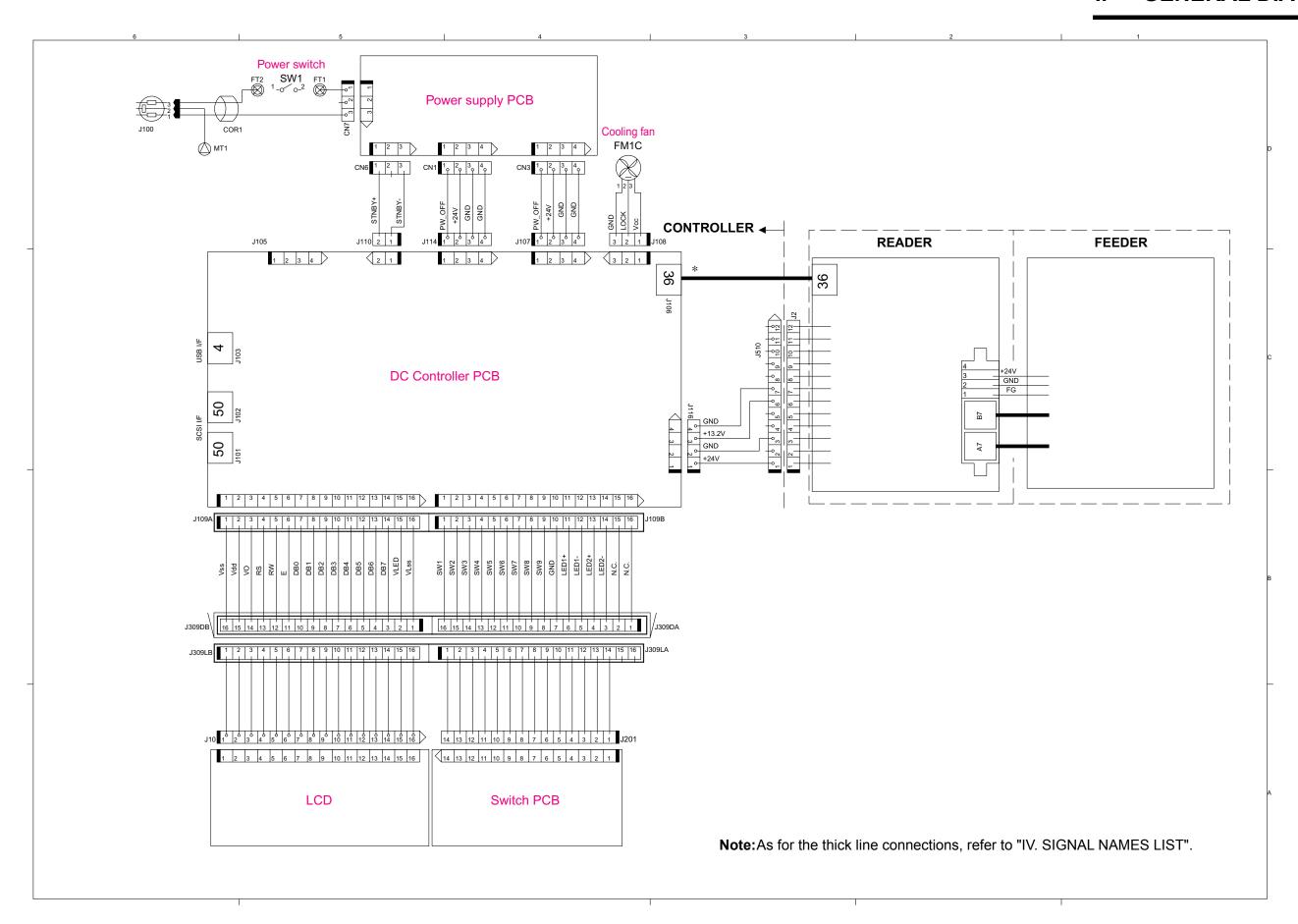
Cause/Fault Location	Step	Check Item	Result	Action
Platen glass	1	Is platen glass clean? (Stain, damage)	NO	Clean or replace platen glass. Also clean the back if necessary. (Including standard white board)
ADF reading glass (ADF mode)	2	Is ADF reading glass clean? (Stain, damage)	NO	Clean or replace reading glass. Also clean the back if necessary.
White level adjustment	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

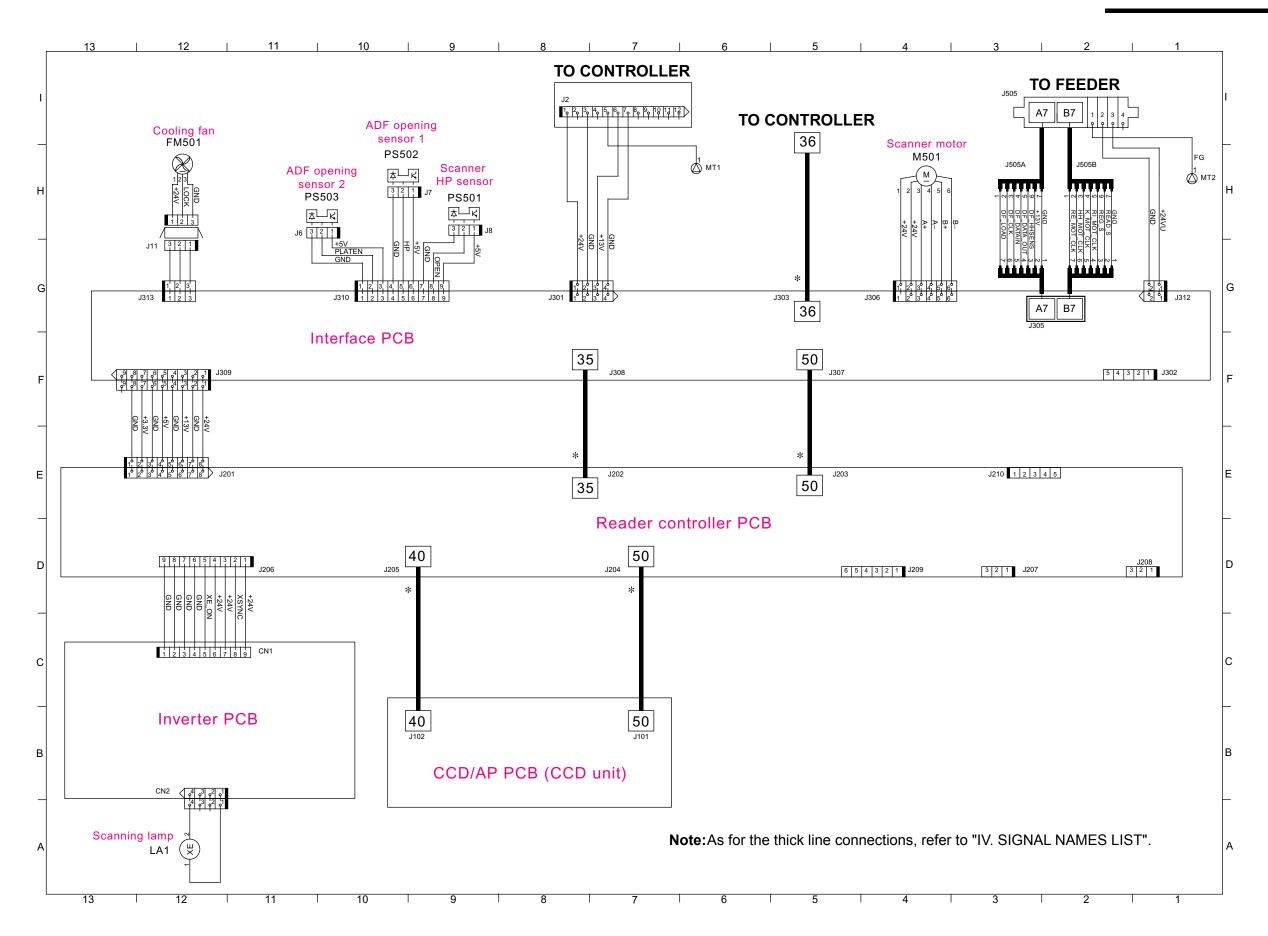
		l		
	GENERAL DIAGRAM A-1			
II.	READER DIAGRAM A-3	V.	SPECIAL TOOLS LIST	A-10
III.	FEEDER DIAGRAM A-5			

I. GENERAL DIAGRAM

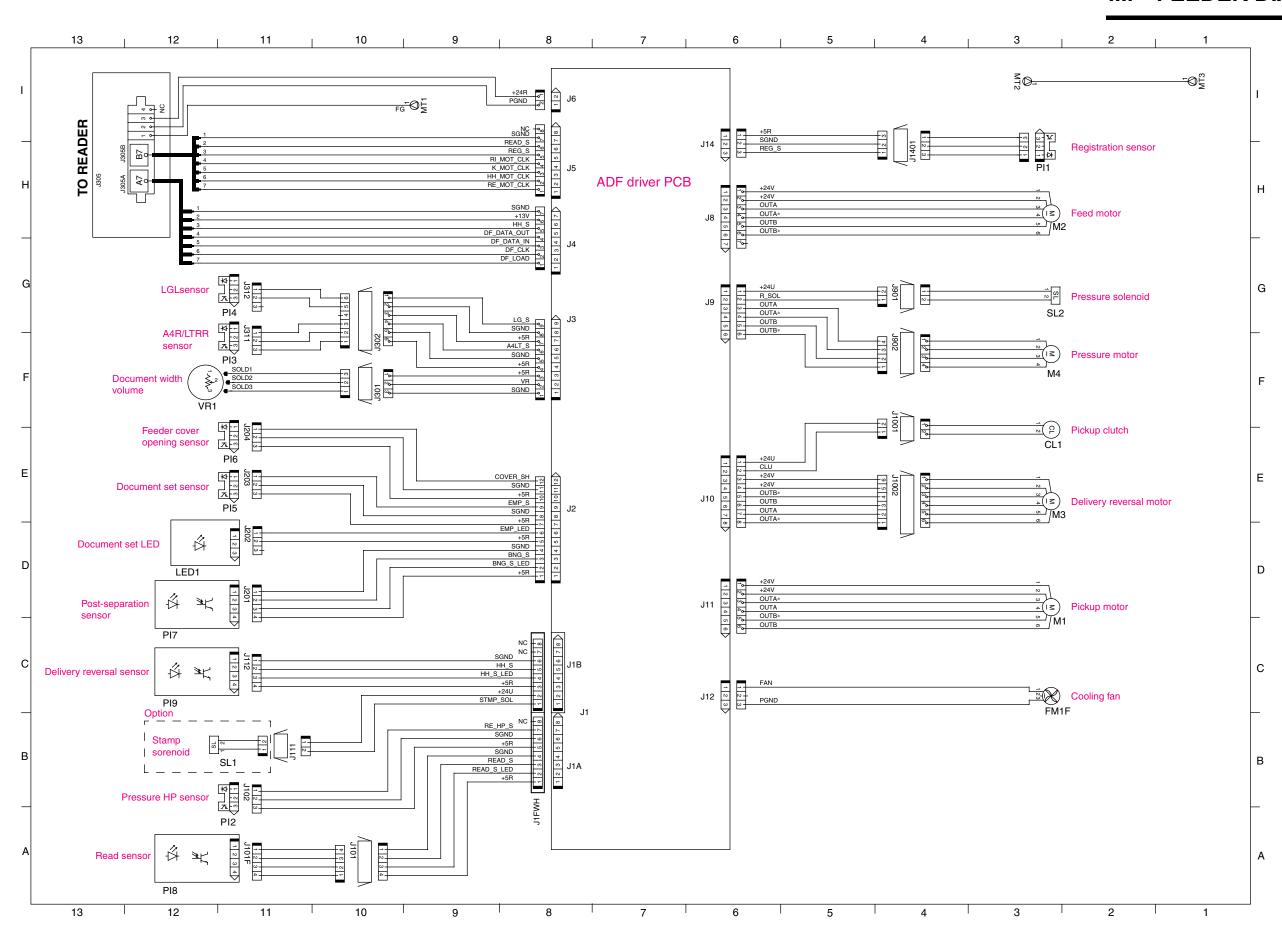


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II. READER DIAGRAM



III. FEEDER DIAGRAM



IV. SIGNAL NAMES LIST

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

Table 1

Table 1				
DC Controlle PCB	er	Signal Name	In	terface 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		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 (SPO_0+)	9	
	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	35	

Table 3

• Table 3	5			
Interface F	РСВ	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	
	43	SVSYNC	8	
	42	GND	9	
	41	SVCLK*	10	
	40	GND	11	
	39	SHSYNC	12	
	38	GND	13	
	37		14	
	36	SVDO17	15	
	35	SVDO18	16	
	34	SVDO19	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		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 SVDO4	38	
	12	SVDO5	39	
	11 10	SVDO5	40 41	
		SVDO7	41	
	9	SVDO7 GND	42	
	8 7	GMKFLAG	43	
		(SPI_0)		
	6	SPI_1	45	
	5	DF_RDSENS	46	
	4	DF_RMAESENS	47	
	3	DF HHSENS	48	
	2	DF OPEN	49	
	1	GND	50	
	_ '	O11D	00	

Table 4

J204 50 GND	Reader Controlle PCB	er	Signal Name	CCI	D/AP PCB
48 AP_SCLK* 3 47 AP_SDATA* 4 46 AP_SLOAD 5 45 GND 6 44 AP_ACLP* 7 43 GND 8 42 AP_MCLK 9 41 GND 10 40 FCP 11 39 SG 12 38 GND 13 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 48 2 GND 48 2 GND 49		50		1	
47 AP_SDATA* 4 46 AP_SLOAD 5 45 GND 6 44 AP_ACLP* 7 43 GND 8 42 AP_MCLK 9 41 GND 10 40 FCP 11 39 SG 12 38 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 48 2 GND 49	J204	49			J101
46 AP_SLOAD 5 45 GND 6 44 AP_ACLP* 7 43 GND 8 42 AP_MCLK 9 41 GND 10 40 FCP 11 39 SG 12 38 GND 13 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 48 2 GND 48 2 GND 49		48	AP_SCLK*	3	
46 AP_SLOAD 5 45 GND 6 44 AP_ACLP* 7 43 GND 8 42 AP_MCLK 9 41 GND 10 40 FCP 11 39 SG 12 38 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 48 2 GND 49		47	AP SDATA*	4	
45 GND 6 44 AP_ACLP* 7 43 GND 8 42 AP_MCLK 9 41 GND 10 40 FCP 11 39 SG 12 38 GND 13 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 44 6 +5V 45 5 5 +5V 46 4 N.C. 47 3 GND 48 2 GND 49		46		5	
44 AP_ACLP* 7 43 GND 8 42 AP_MCLK 9 41 GND 10 40 FCP 11 39 SG 12 38 GND 13 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 <td< td=""><td></td><td>45</td><td></td><td>6</td><td></td></td<>		45		6	
42 AP_MCLK 9 41 GND 10 40 FCP 11 39 SG 12 38 GND 13 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 1		44	AP ACLP*	7	
41 GND 10 40 FCP 11 39 SG 12 38 GND 13 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 44 6 +5V 45 5 +5V 46 4 N.C. 47 3 GND 48 2 GND 48		43	GND	8	
40 FCP 11 39 SG 12 38 GND 13 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		42	AP MCLK	9	
40 FCP 11 39 SG 12 38 GND 13 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		41	GND	10	
39 SG 12 38 GND 13 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 48 2 GND 48 2 GND 48		40			
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		39	SG	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				13	
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					
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					
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		35		_	
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		34	GND	17	
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			CK2*	18	
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		32	GND	19	
29 SW2* 23 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		31	GND	20	
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		30	SW3*	21	
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		29	SW2*	22	
26 ST4* 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		28	SW1*	23	
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		27	GND	24	
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		26	ST4*	25	
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 49					
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					
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					
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 49					
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 49					
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					
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					
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					
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					
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					
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			SH2*		
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					
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					
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					
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					
8 N.C. 43 7 +5V 44 6 +5V 45 5 +5V 46 4 N.C. 47 3 GND 48 2 GND 49					
7 +5V 44 6 +5V 45 5 +5V 46 4 N.C. 47 3 GND 48 2 GND 49					
6 +5V 45 5 +5V 46 4 N.C. 47 3 GND 48 2 GND 49					
5 +5V 46 4 N.C. 47 3 GND 48 2 GND 49					
4 N.C. 47 3 GND 48 2 GND 49					
3 GND 48 2 GND 49					
2 GND 49					
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			טווט	อบ	

• Table 5

• Table 5			ı	
Reader Controlle PCB		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]

Canon

DR-7080C

PARTS 内部用 CATALOG

FIRST EDTION

DR-7080C 100V 50/60Hz M11-0491 120V 60Hz M11-0493 220-240V 50/60Hz 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

MY8-31A1-000

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。

サービス部品の要求は、キヤノン販売営業所にお願い致します。

製品に大きな変更がある場合は、改訂版のパーツ・カタログを発行しますが、その他の場合は随時新しい情報をお届けします。

このパーツ・カタログは当社品質保証部品質推進課が発行管理を行っています。

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

目 次 **CONTENTS** 主要部品配置図 Α ASSEMBLY LOCATION DIAGRAM P11 フィーダ外装カバー部 P11 FEEDER EXTERNAL COVERS P12 原稿トレイ部 P21 DOCUMENT TRAY ASSEMBLY P31 開閉カバー部 P31 OPEN/CLOSE PANEL ASSEMBLY P41 PAPER FEEDER ASSEMBLY P41 搬送部 001 ADF付属品 001 ADF ACCESSORY 210 リーダ部 210 READER ASSEMBLY 211 リーダフレーム部 211 READER FRAME ASSEMBLY 194 スキャナ冷却ファン部 194 SCANNER COOLING FAN ASSEMBLY 420 第1ミラー台部 420 MIRROR ASSEMBLY 1 430 第2ミラー台部 430 MIRROR ASSEMBLY 2 510 操作パネル部 510 OPERATION PANEL ASSEMBLY 520 コントローラ部 520 CONTROLLER ASSEMBLY 部品索引表 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) 部品番号 (PART NUMBER)

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) ラ ン ク (RANK)

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) 使用個数 (Q'TY)

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) 備考 (REMARKS)

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-1 ASSEMBLY LOCATION DIAGRAM-1 主要部品配置図-1

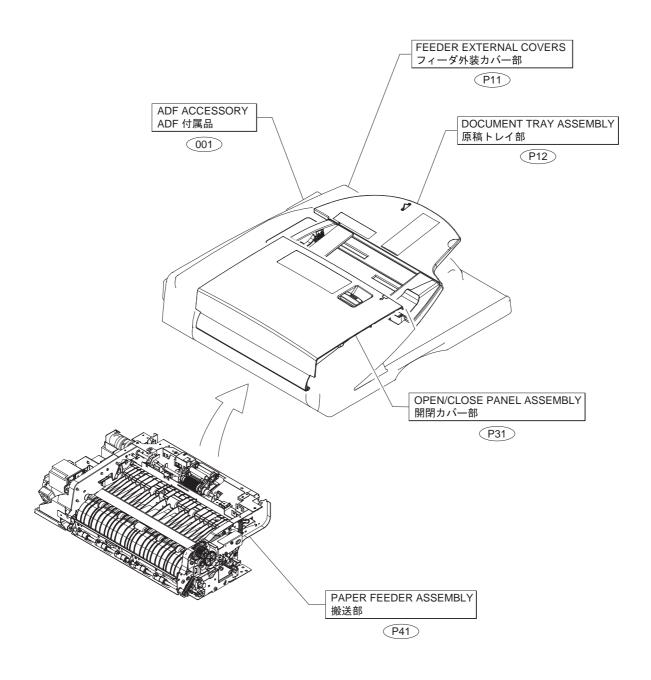
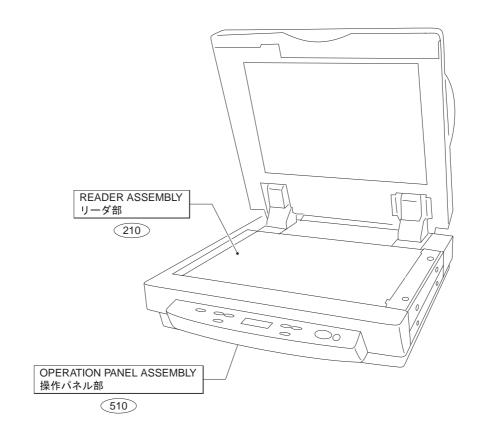


FIGURE A-2 ASSEMBLY LOCATION DIAGRAM-2 主要部品配置図-2



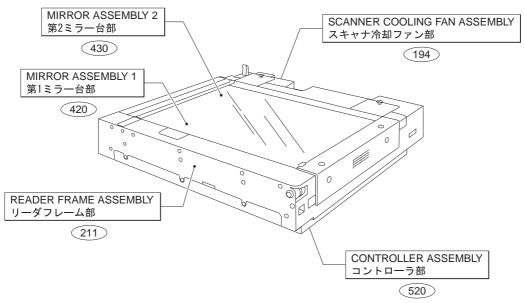


FIGURE P11 (1/2) FEEDER EXTERNAL COVERS フィーダ外装カバー部

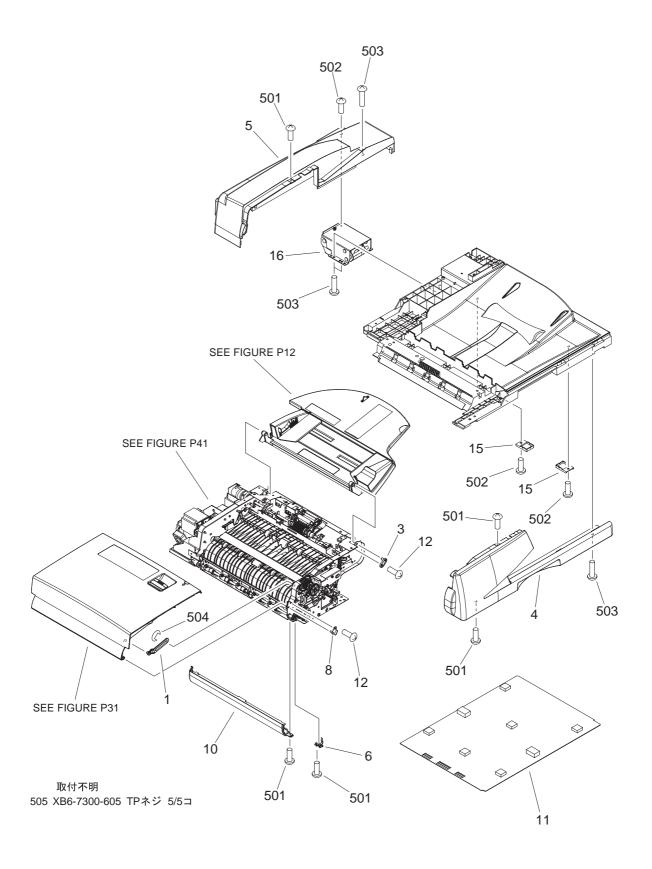


FIGURE P11 (2/2) FEEDER EXTERNAL COVERS フィーダ外装カバー部

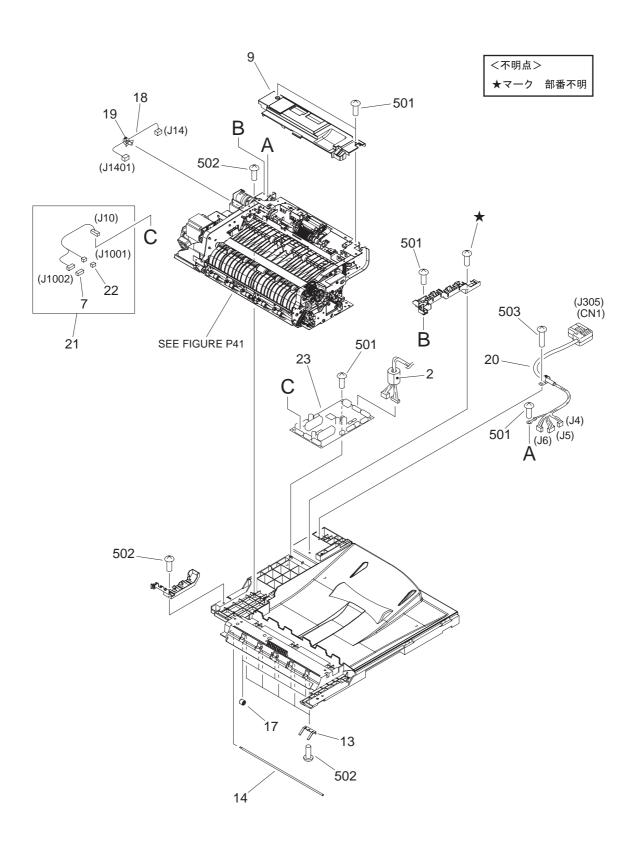


FIGURE &		PART NUMBER	R A N	Q' T	DESCRIPTION	REMARKS
KEY NO.	. 1	* FC5-3015-000	K	Y 1	ARM. OPEN/CLOSE PANEL STOPPER	
PII -	2	WE8-5256-000		1	RIM, OFEIN CLOSE FAIREL STOFFER 開閉カバー ストッパ アーム CLAMP, FERRITE	
	3				OLAMF, FERRITE フェライト クランプ PIN, POSITIONING	
		FC5-3102-000		1	位置決めピン	
	4	FC5-3202-000		1	PANEL, FRONT 前カバー	
	5	FL2-1303-000		1	PANEL, REAR 後カバー	
	6	FC5-3214-000		1	BLOCK, HEIGHT 高さコマ	
	7	VS1-7177-006		1	IDCコ NOTE TO THE TOTAL T	
	8	FL2-0725-000		1	PLATE, OPEN/CLOSE SHAFT 開閉支軸板	
	9	FL2-0726-000		1	PANEL, CENTER 中カバー	
	10	FL2-0727-000		1	PANEL, SIDE サイド カバー	
	11	FL2-0728-000 *		1	PANEL, COPYBOARD 原稿かれば	
	12	XA9-1031-000		7	原稿台カバー SCREW, MACH., TRUSS HEAD, M4X8 バインド ネジ	
	13	FC5-3211-000		5	SPRING, LEAF	
	14	FC5-3212-000		1	板 バネ SHAFT, PAPER READ ROLLER	
	15	FC5-3221-000		2	リード 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	右ヒンジ ROLLER, FEED	
	18	FM2-1028-000		1	搬送コロ 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	モータ/クラッチ中継束線 CONRECTOR, SNAP TIGHT, BK	
	23	FM2-1021-000		1	中継コネクタ ADF CONTROLLER PCB ASSEMBLY	
5	01	XB1-2300-605		7	ADFコントローラ回路基板 SCREW, MACH., TRUSS HEAD, M3X6	
5	02	XB4-5400-805		15	バインド ネジ SCREW, P, M4X8 P タイト ネジ	
5	03	XB4-5401-205		7	SCREW, P. M4X12	
5	04	XD2-1100-502		1	P タイト ネジ RING, E E LIS グ	
5	05	XB6-7300-605		5	E リング SCREW, TP, M3X6	
					TP ネジ	
				•		•

FIGURE P12 DOCUMENT TRAY ASSEMBLY 原稿トレイ部

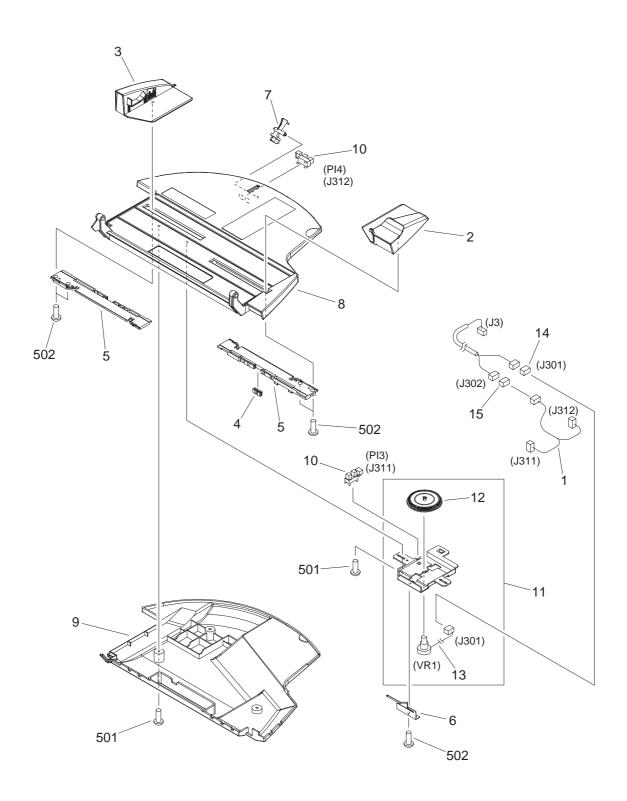


FIGURE & KEY NO.	PART NUMBER	R A N K	Q' T Y	DESCRIPTION	REMARKS
P12 - 1	FM2-1031-000		1	CABLE, DOCUMENT TRAY CONNECT	
2	FC5-3106-000		1	原稿トレイ中継束線 GUIDE, DOCUMENT SIDE, FRONT	
3	FL2-1304-000		1	原稿サイド ガイド(前) GUIDE, DOCUMENT SIDE, REAR	
4	FC5-3108-000		1	原稿サイド ガイド(後) RACK	
5	FC5-3111-000		2	ラ ック RACK, DOCUMENT SIDE GUIDE 原稿サイド ガイド ラック	
6	FC5-3113-000		1	ŞPRING, LEAF	
7	FC5-3137-000		1	板 バネ FLAG DOCUMENT LENGTH SENSOR	
8	FL2-0735-000		1	原稿長さ検知フラグ TRAY, DOCUMENT, UPPER	
9	FL2-0736-000		1	原稿トレイ(上) TRAY, DOCUMENT, LOWER	
10	WG8-5593-000		2	原稿トレイ(下) 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	ボリューム ホルダ部 GEAR, 68T	
13	FM2-1024-000		1	68T ギア VARIABLE RESISTOR UNIT	
14	VS1-7177-003		1	可変抵抗ユニット CONNECTOR, SNAP TIGHT, BK	
15	VS1-7177-006		1	中継コネクタ CONNECTOR, SNAP TIGHT, BK 中継コネクタ	
501	XB4-7300-805		6	SÇREW, TAPPING, TRUSS HEAD, M3X8	
502	XB4-7401-005		4	バインド タッピン ネジ SCREW, TAPPING, TRUSS HEAD, M4X10 バインド タッピン ネジ	

FIGURE P31 OPEN/CLOSE PANEL ASSEMBLY 開閉カバー部

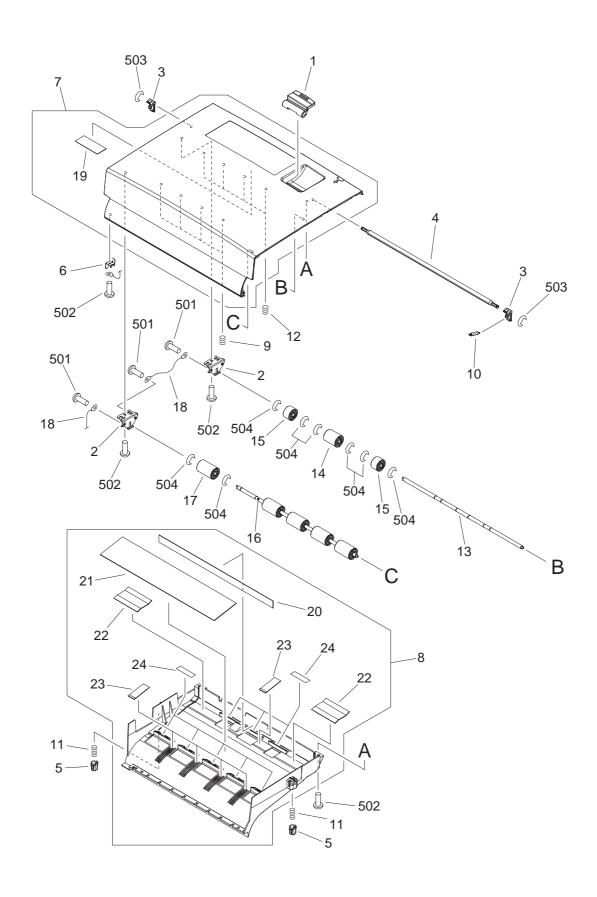


FIGURE		R	Q'		
& KEY NO.	PART NUMBER *	A N K	T Y	DESCRIPTION	REMARKS
P31 - 1	FC5-2953-000		1	LEVER, OPEN/CLOSE 開閉レバー	
2	FC5-2956-000		2	用品レバー PLATE, REGISTRATION ADJUSTMENT レジスト調整板	
3	FC5-2957-000		2	レンスト詞を似 LEVER, LATCH ラッチ レバー	
4	FC5-2958-000		1	SHAFT, LATCH	
5	FC5-2963-000		2	ラッチ軸 RETAINER, OPEN/CLOSE 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 問題もご	
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 圧縮バネ	
12	FU5-2250-000		4	圧縮ハイ SPRING, COMPRESSION 圧縮バネ	
13	FC5-3025-000		1	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 ローラ(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	クリーニング シート SHEET, CLEANING(A) クリーニング シート	
21	MA2-7049-000 *		1	SHEET, CLEANING(B) クリーニング・シート	
22	MA2-7051-000 *		2	SHEET, CLEANING(D) クリーニング・シート	
23	MA2-7052-000 *		5	SHEET, CLEANING(E) クリーニング・シート	
24	FC5-2954-000		8	SCRAPER スクレーパ	
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 P タイト ネジ	
503	XD2-1100-402		2	RING, E E リング	
504	XD2-1100-502		16	RING, E	
				E リング	

FIGURE P41 (1/3) PAPER FEEDER ASSEMBLY 搬送部

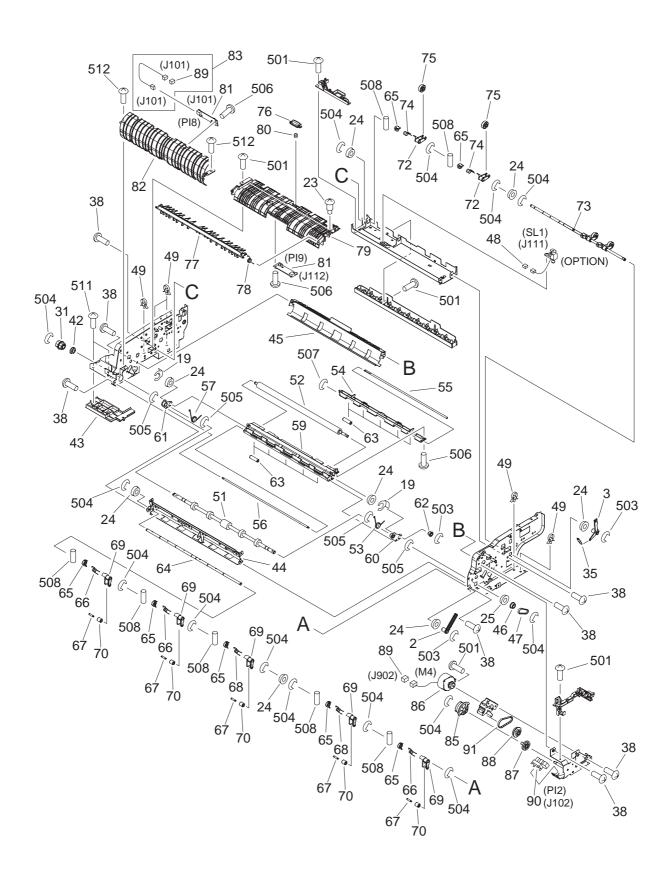


FIGURE P41 (2/3) PAPER FEEDER ASSEMBLY 搬送部

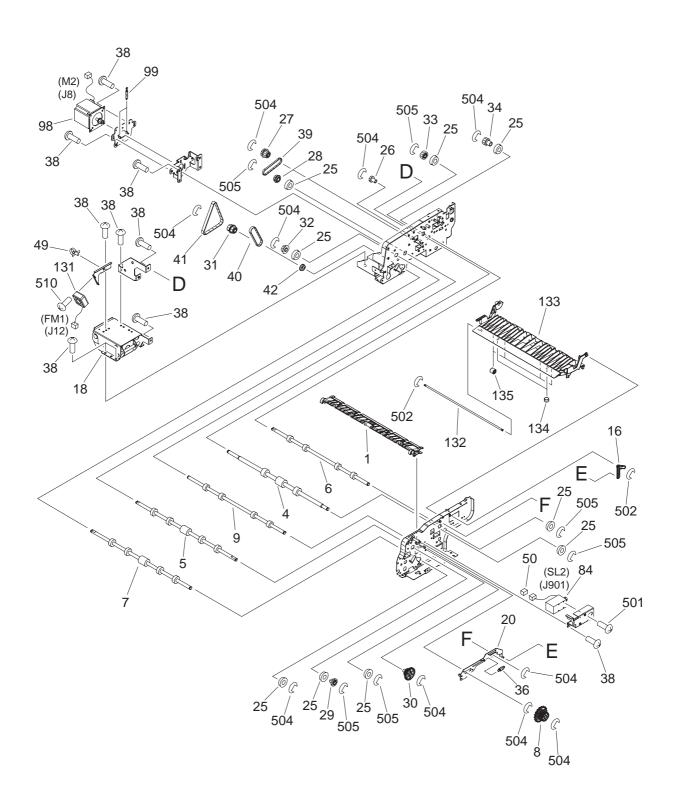


FIGURE P41 (3/3) PAPER FEEDER ASSEMBLY 搬送部

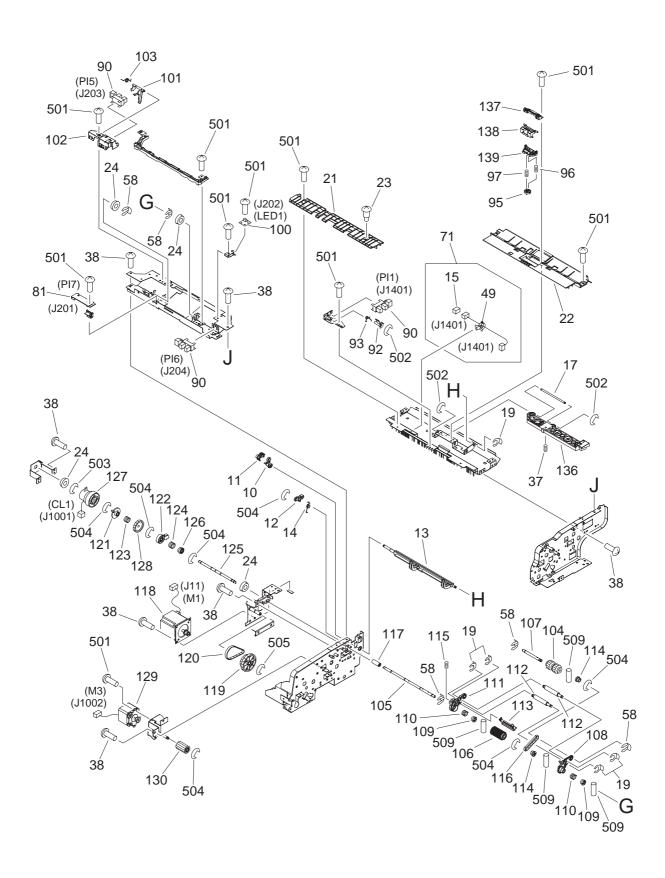


FIGURE & KEY NO.	PART NUMBER	R A N K	Q' T Y	DESCRIPTION	REMARKS
P41 - 1	FC5-2980-000	IX	1	GUIDE, REVERSE	
2	FC5-2991-000		1	反転ガイド ARM, RELEASE	
3	FC5-2992-000		1	解除アーム ARM, RELEASE	
4	FC5-2994-000		1	解除アーム ROLLER, REGISTRATION, 1	
5	FC5-2995-000		1	レジスト ローラ(1) ROLLER, REGISTRATION, 2	
				レジスト ローラ(2)	
6	FC5-2996-000		1	ROLLER, PAPER DELIVERY 排紙ローラ	
7	FC5-2998-000		1	ROLLER, PAPER READ リード ローラ	
8	FC5-3008-000		1	KNOB, JAM CLEARING ジャム処理ノブ	
9	FC5-3010-000		1	ROLLER, PAPER FEEDER 搬送ローラ	
10	FC5-3144-000		1	ĹÊVER, LÓCK ロック レバー	
11	FC5-3145-000		1	LEVER, LOCK	
12	FC5-3146-000		1	ロック レバー LEVER, LOCK	
13	FC5-3147-000		1	ロック レバー SHUTTER, DOCUMENT 原籍さないな	
14	FC5-3148-000		1	原稿シャッタ SPRING, TORSION	
15	VS1-7177-003		1	ねじりバネ CONNECTOR, SNAP TIGHT, BK 中継コネクタ	
16	FC5-3154-000		1	LINK, PRESSURE RELEASE 加圧解除リンク	
17	FC5-3177-000		1	加圧解除・プラン SHAFT, PRESSURE RELEASE LINK 加圧解除リンク軸	
18	FC5-3225-000		1	加圧 辞 味 ウン ク 軸 HINGE, LEFT 左 ヒン ジ	
19	FC5-4424-000		7		
20	FL2-0730-000		1	レリップ LINK, PRESSURE RELEASE 加圧解除リンク	
21	FL2-0731-000		1	GUIDE, REGISTRATION レジスト ガイド	
22	FL2-0732-000		1	GUIDE, SEPARATION LOWER 分離下ガイド	
23	FS1-9003-000		2	SCREW, STEPPED, M4	
24	FS2-1052-000		12	ダンビス BUSHING ブッシング	
25	FS5-1605-000		10	フッシンケ BUSHING ブッシング	
26	FU5-0331-000		1	GEAR, 18T 18T ギア	
27	FU5-0332-000		1	101 GEAR, 24T/PULLEY, 28T 24T ギア/28T プーリ	
28	FU5-0333-000		1	241 イア/281 ノーリ PULLEY, 28T 28T プーリ	
29	FU5-0334-000		1	261 ノーツ GEAR, 24T 24T ギア	
30	FU5-0335-000		1	GEAR, 42T/24T 42T/24T ギア	
31	FU5-0336-000		2	PULLEY, 30T	
32	FU5-0338-000		1	30T プーリ PULLEY, 30T	
33	FU5-0340-000		1	30T ブーリ GEAR, 24T	
34	FU5-0346-000		1	24T ギア 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	
37	FU5-2249-000		1	引っ張りバネ SPRING, COMPRESSION	
38	XA9-1031-000		51	圧縮バネ SCREW, MACH., TRUSS HEAD, M4X8	
39	XF2-1108-040		1	バインド ネジ BELT, TIMING	
40	XF2-1108-860		1	タイミング ベルト BELT, TIMING, COGGED タイミング ベルト	
41	XF9-0746-000		1	BELT, TIMING, COGGED	
42	XG9-0237-000		2		
43	FC5-3218-000		1	ベアリング COVER, PAPER FEEDER FRAME	
44	FL2-0737-000		1	搬送フレーム カバー GUIDE, PAPER FEEDER, 1	
45	FL2-1301-000		1	搬送ガイド(1) GUIDE, PAPER FEEDER, 2 搬送ガイド(2)	
46	FU5-0339-000		1	PULLEY, 23T	
47	XF9-0747-000		1	23T プーリ BELT, TIMING, COGGED	
48	VS1-7177-002		1	タイミング ベルト CONNECTOR, SNAP TIGHT, BK	
49	WT2-5565-000		7	中継コネクタ CLAMP, CABLE	
50	VS1-7176-002		1	ソクセン オサエ CONNECTOR, SNAP TIGHT, BK 中継コネクタ	
51	FC5-2997-000		1	ROLLER, PAPER READ	
52	FC5-3027-000 *		1	リード ローラ ROLLER, PLATEN	
53	FC5-3002-000		1	プラテン ローラ SPRING, TORSION	
54	FC5-3004-000		1	ねじりバネ GUIDE, PLATEN, 2	
55	FC5-3006-000		1	プラテン ガイド(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	プラテン コロ軸(2) SPRING, TORSION	
58	FC5-4425-000		5	ねじりバネ CLIP	
59	FL2-0753-000		1	クリップ GUIDE, PLATEN, 1	
60	FL2-0754-000		1	プラテン ガイド(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 短動 デッシング・アート(後)	
62	FU5-0341-000		1	揺動ブッシング アーム(後) PULLEY, 18T 18T プーリ	
63	FU5-6078-000		10	ROLLER, PLATEN	
64	FC5-2987-000		1	ブラテン コロ SHAFT, PAPER READ ROLLER リード コロ軸	
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	ねじりバネ SHAFT, PAPER FEEDER ROLLER	
68	FC5-3026-000		2	搬送コロ軸 SPRING, TORSION	
69	FL2-0741-000		5		
70	FU5-6076-000		5	搬送コロ ホルダ ROLLER, PAPER FEEDER 搬送コロ	

FIGURI & KEY NO		PART NUMBER	R A N K	Q' T Y	DESCRIPTION	REMARKS
P41 -	71	FM2-1029-000	r\	Y 1	CABLE, REGISTRATION CONNECTING	
	72	FC5-2989-000		4	レジスト中継束線 HOLDER, PAPER DELIVERY ROLLER	
	73	FC5-2990-000		1	排紙コロ ホルダ SHAFT, PAPER DELIVERY ROLLER	
	74	FC5-3022-000		4	排紙 口軸 SPRING, TORSION	
					aじりバネ ROLLER, PAPER DELIVERY	
	75	FU5-6077-000		4	排紙コロ	
	76	FC5-2978-000		1	GUIDE, REFORM 腰付けガイド	
	77	FC5-2979-000		1	BETLECTOR, REVERSE 反転フラッパ	
	78	FC5-3020-000		1	スキュンタハ SPRING, TORSION ねじりパネ	
	79	FL2-0742-000		1	GUIDE, PAPER DELIVERY	
	80	FU5-2240-000		1	排紙ガイド SPRING, COMPRESSION 圧縮バネ	
	81	FM2-1022-000		3	SENSOR PCB UNIT	
	82	FC5-2975-000		1	SENSON FOR SINT センサ回路基板 GUIDE, PAPER FEEDER, 3	
	83	FM2-1026-000		1	搬送ガイド(3) CABLE, PAPER FEEDER SENSOR	
	84	FK2-0210-000		1	搬送センサ東線 SOLENOID	
	85	FC5-2967-000		1	SOLENO ソレノイド CAM, READ ROLLER RELEASE	
	00	1 00 2307 000		·	リードローラ解除カム	
	86	FK2-0207-000		1	MOTOR, STEPPING, DC ステッピングDC モータ	
	87	FU5-0329-000		1	GEAR, 31T 31T ギア	
	88	FU5-0330-000		1	PULLEY, 40T/GEAR, 20T 40T プーリ/20T ギア	
	89	VS1-7177-004		2	CONNECTOR, SNAP TIGHT, BK 中継コネクタ	
	90	WG8-5593-000		4	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 ベルト FLAG, REGISTRATION SENSOR	
	93	FC5-3150-000		1	レジスト センサ フラグ SPRING, TORSION	
	95	FC5-3152-000		1	ねじりバネ BLOCK, PRESSURE RELEASE 加圧解除コマ	
	96	FU5-2245-000		1	加圧解除コマ SPRING, COMPRESSION 圧縮バネ	
	97	FU5-2251-000		1	SPRING, COMPRESSION Execution	
	98	FK2-0205-000		1	圧縮バネ MOTOR, STEPPING, DC ステッピングDC、エータ	
	99	FU5-2237-000		2	ステッピングDC モータ SPRING, TENSION 引っ張りバネ	
	100	FM2-1023-000		1	51つ張りハイ LED PCB UNIT LED 回路基板	
	101	FC5-3128-000		1	LED 凹眸基板 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	センサ ホルダ SPRING, TORSION	
	104	MA2-7046-000 *		1	ねじりバネ ROLLER, PICK_UP	
	105	FC5-3114-000		1	キュウシ ローラ SHAFT, SEPARATION ROLLER	
	106	MA2-7047-000 *		1	分離ローラ軸 ROLLER, SEPARATION 分離ローラ	

FIGURE & KEY NO.		PART NUMBER	R A N K	Q' T Y	DESCRIPTION	REMARKS
P41 - 1	07	FC5-3116-000		1	SHAFT, PIÇK-UP ARM	
1	08	FC5-3118-000		1	ピックアップ アーム軸 ARM, PICK-UP, FRONT	
1	09	FC5-3119-000		2	給紙アーム(前) BUSHING	
1	10	FC5-3120-000		2	ブッシング SPRING, CLUTCH	
1	11	FC5-3121-000		1	クラッチ バネ ARM, PICK-UP, REAR 給紙アーム(後)	
1	12	FC5-3124-000		2	SHAFT, PAPER PICK-UP WEIGHT	
1	13	FL2-1299-000		1	給紙ウエイト軸 GUIDE, PAPER PICK-UP	
1	14	FU5-0343-000		2	ピックアップ ガイド PULLEY, 18T 18T プーリ	
1	15	FU5-2244-000		1	SPRING, COMPRESSION	
1	16	XF2-1106-140		1	圧縮バネ BELT, TIMING タイミング ベルト	
1	17	FC5-3163-000		1	JOINT ジョイント	
1	18	FK2-0204-000		1	MOTOR, STEPPING, DC	
1	19	FU5-0344-000		1	ステッピングDC モータ PULLEY,60T/GEAR,60T 60T プーリ/60T ギア	
1	20	XF2-1108-560		1	BELT, TIMING タイミング ベルト	
1	21	FC5-3165-000		1	JOINT ジョイント	
1	22	FC5-3166-000		1	LEVER, SHUTTER	
1	23	FC5-3167-000		1	シャッタ レバー SPRING, CLUTCH	
1	24	FC5-3168-000		1	クラッチ バネ SPRING, CLUTCH	
1	25	FC5-3169-000		1	クラッチ バネ SHAFT, CLUTCH	
1	26	FC5-3170-000		1	クラッチ軸 BUSHING ブッシング	
1	27	FK2-0209-000		1	CLUTCH, ELECTROMAGNETIC	
1	28	FU5-0345-000		1	電磁クラッチ GEAR, 40T 40T ギア	
1	29	FK2-0217-000		1	MOTOR, STEPPING, DC	
1	30	FU5-0328-000		1	ステッピングDC モータ GEAR, 24T 24T ギア	
1	31	FK2-0208-000		1	EAN ファン	
1	32	FC5-3009-000		1	SHAFT, PAPER FEEDER ROLLER 搬送コロ軸	
1	33	FL2-0747-000		1	GUIDE, OPEN/CLOSE	
1	34	FU5-2238-000		2	開閉ガイド SPRING, COMPRESSION Exect ウ	
1	35	FU5-6073-000		4	圧縮バネ ROLLER, FEED 数半フロ	
1	36	FC5-3153-000		1	搬送コロ GUIDE, PRESSURE RELEASE 加圧解除ガイド	
1	37	MF1-4291-000 *		1	HOLDER, SEPARATION PAD, 2	
1	38	MF1-4292-000 *		1	分離パッド ホルダ(2) HOLDER, SEPARATION PAD, 1	
1	39	MF1-4293-000 *		1	分離パッド ホルダ(1) HOLDER, SEPARATION PAD, 3	
5	i01	XB1-2300-605		26	分離パッド ホルダ(3) SCREW, MACH., TRUSS HEAD, M3X6	
5	02	XD2-1100-322		5	バインド ネジ RING, E E リング	

FIGU & KEY I		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 リング RING, E	
	505	XD2-1100-642		11	E リング RING, E	
	506	XB4-7300-805		5	E リング SCREW, TAPPING, TRUSS HEAD, M3X8	
	507	XD2-1100-242		1	バインド タッピン ネジ RING, E E リング	
	508	XD3-2200-122		9	PIN, DOWEL	
	509	XD3-2200-102		4	ヘイコウ ピン PIN, DOWEL	
	510	XB1-1301-209		2	ヘイコウ ピン SCREW, MACH., PAN HEAD, M3X12	
	511	XB4-5400-805		2	ナベ ネジ SCREW, P, M4X8	
	512	XB6-7300-605		2	P タイト ネジ SCREW, TP, M3X6 TP ネジ	

FIGURE 001 ADF ACCESSORY ADF付属品

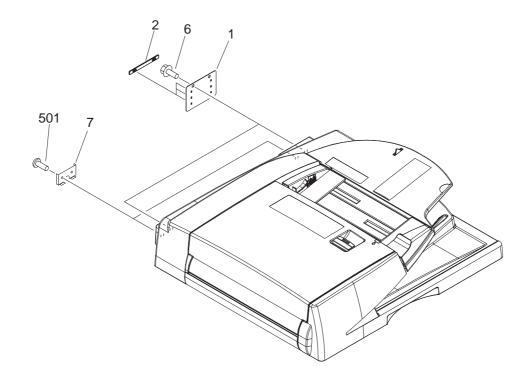
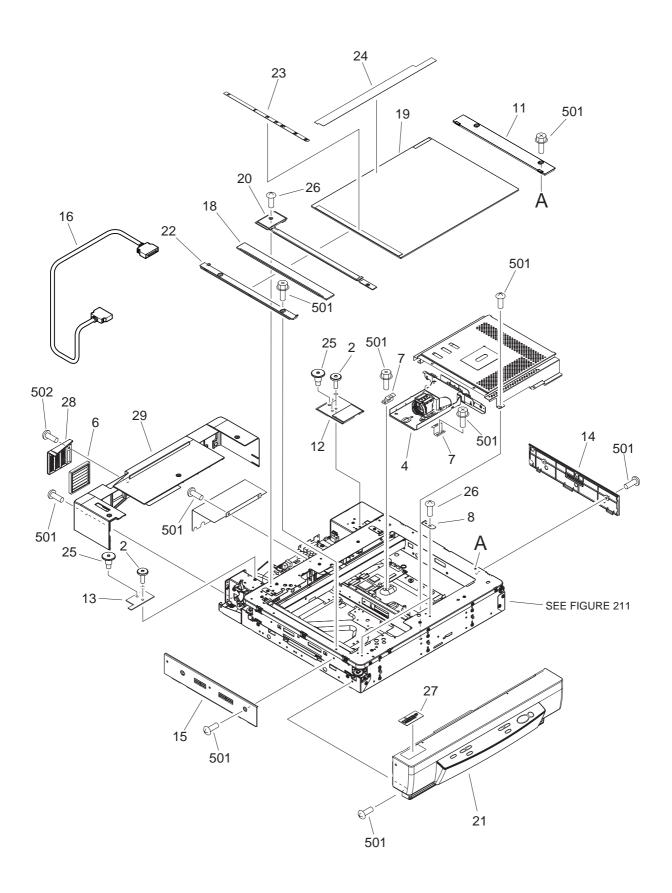


FIGURE & KEY NO.		PART NUMBER	R A N	Q' T	DESCRIPTION	REMARKS
	1	FC5-3207-000	K	Y 2	COVER, HINGE	
	2	FC5-3223-000		6	ヒンジ カバー PLATE, HINGE COVER	
	3	FC5-3060-000		1	ヒンジ カバー板 LABEL, DOCUMENT SIZE (DIS)	
	4	FC5-3050-000		1	原稿サイズ ラベル LABEL, SIZE (AB)	100V
		FC5-3051-000		1	サイズ ラベル LABEL, SIZE (INCH/A)	120V
					サイズ ラベル	
		FC5-3052-000		1	LABEL, SIZE (A) サイズ ラベル	220-240V
		FC5-3053-000		1	LABEL, SIZE (INCH/AB) サイズ ラベル	
	5	FC5-3055-000		1	LABEL, PROHIBITION DOCUMENT (JPN) 禁止原稿ラベル	100V
		FC5-3056-000		1	LABEL, PROHIBITION DOCUMENT (EFSP) 禁止原稿ラベル	120V
		FC5-3057-000		1	LABEL, PROHIBITION DOCUMENT (EFIGS) 禁止原稿ラベル	220-240V
	6	XA9-0874-000		4	SCREW, M3X8	
	7	FC5-3227-000		2	B タイト ネジ PLATE, ANGLE CONTROL 角度規制板	
50	01	XB1-2400-605		4	用度税制(M) SCREW, MACH., TRUSS HEAD, M4X6 パインド ネジ	
					ハイント・ホシ	
-	+					

FIGURE 210 READER ASSEMBLY J—ダ部



		_			1
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	CCD ユニット FILTER, AIR	
7	FB4-0726-000		2	エア フィルタ SPRING, LEAF	
8	FC5-2792-000		2	イタ バネ PLATE, GLASS SUPPORT	
				ガラス突き当て板	
9	FC5-2891-000		4	DAMPER, READER リーダ ダンパ	
11	FC5-2927-000		1	PANEL, RIGHT UPPER 右上カバー	
12	FC5-2929-000		1	SPACER, DF MOUNTING, RIGHT DF取付台スペーサ(右)	
13	FC5-2930-000		1	SPACER, DF MOUNTING, LEFT DF取付台スペーサ(左)	
14	FC5-2937-000		1	PANEL, RIGHT 右カバー	
15	FC5-2938-000		1	PANEL, LEFT	
16	FH2-7036-000		1	左カバー CABLE, DDI-S SERIAL	
18	FL2-0625-000 *		1	DDI-Sシリアル ケーブル GLASS, READER, FRONT LEFT	
19	FL2-0627-000		1	流し読みガラス(前左) GLASS, COPYBOARD	
20	FL2-0628-000		1	原稿台ガラス MOUNT, JUMP ジャンプ台	
22	FL2-0646-000		1	PANEL, LEFT UPPER	
23	FU5-8264-000		1	左上カバー PLATE, WIDTH SIZE (AB)	100V
	FU5-8265-000		1	縦サイズ プレート PLATE, WIDTH SIZE (INCH/A)	120V
	FU5-8266-000		1	縦サイズ プレート PLATE, WIDTH SIZE (A)	220-240V
24	FU5-8268-000		1	縦サイズ プレート PLATE. LENGTH SIZE (AB)	100V
				横サイズ プレート	
	FU5-8269-000		1	PLATE, LENGTH SIZE (INCH/A) 横サイズ プレート	120V
	FU5-8270-000		1	PLATE, LENGTH SIZE (A) 横サイズ プレート	220-240V
25	FU5-9168-000		2	SCREW, STEPPED, M5 段ピス	
26	XA9-1521-000		13	SCREW, RS, M3X6 RSタイト ネジ	
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) ガニュー 注視位衆ニペル	120V, 220-240V
28	FC5-2934-000		1	ガラス 清掃位置ラベル COVER FILTER	
29	FL2-0643-000		1	フィルタ カバー PANEL, REAR ※カッ	
501	XB3-6400-805		31	後カバー SCREW, RS, M4X8	
502	XB4-5400-806		1	RS タイト ネジ SCREW, P, M4X8 P タイト ネジ	
					<u> </u>

FIGURE 211 (1/2) READER FRAME ASSEMBLY リーダフレーム部

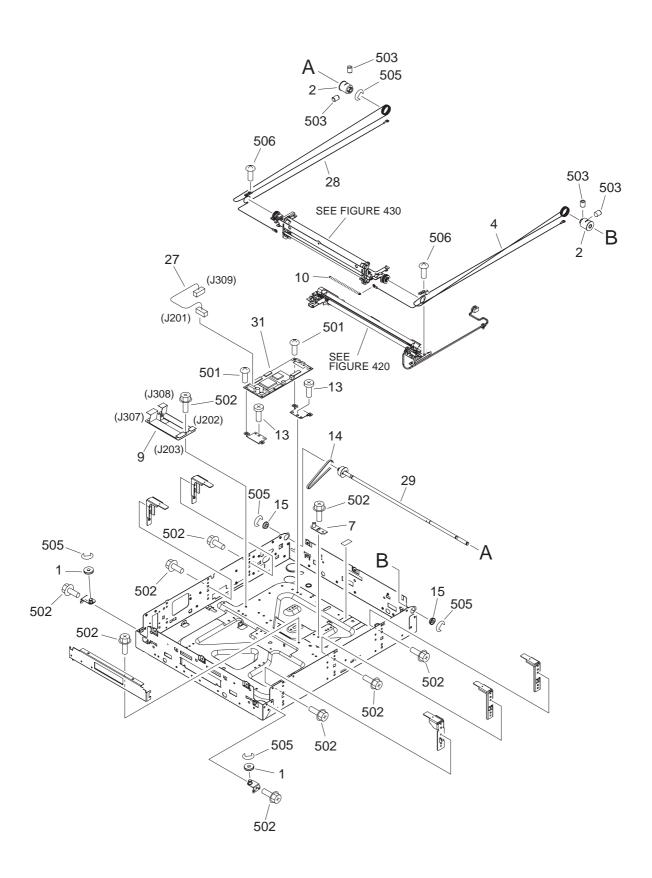


FIGURE 211 (2/2) READER FRAME ASSEMBLY リーダフレーム部

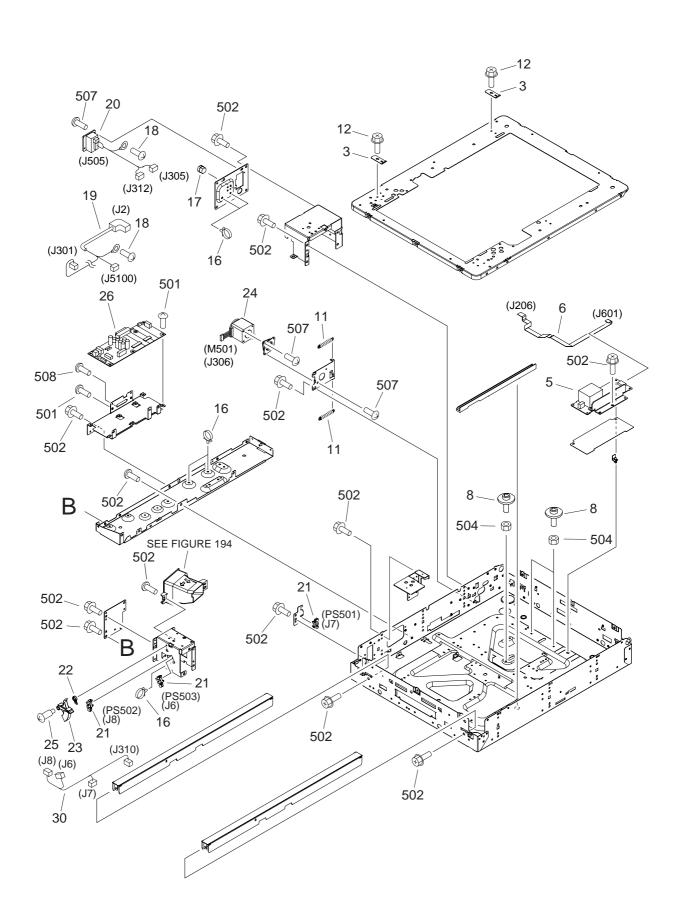
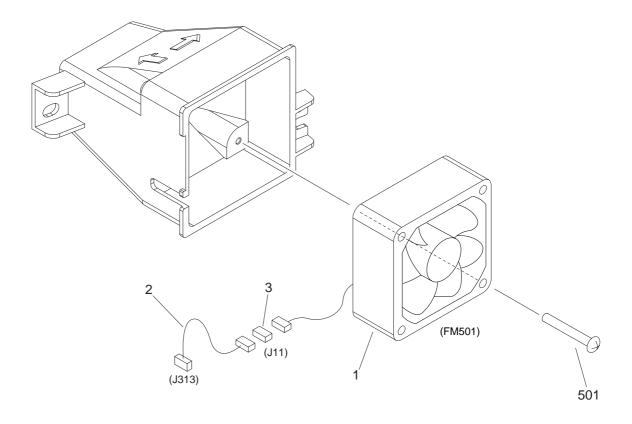


FIGURE		Ŗ	Q'		
& KEY NO.	PART NUMBER *	A N K	T Y	DESCRIPTION	REMARKS
211 - 1	FB1-7109-000		2	PULLEY	
2	FB5-3087-000		2	ブーリ PULLEY	
3	FC5-2792-000		2	ブーリ PLATE, GLASS SUPPORT	
4	FC5-2804-000		1	ガラス突き当て板 WIRE, FRONT	
5	FK2-0225-000		1	ワイヤ(前) INVERTER, XENON LAMP キセノン ランプ インバータ	
6	FK2-0234-000		1	CABLE, FLAT	
7	FL2-0642-000		1	フラット ケーブル PLATE, POSITIONING	
8	FS5-9772-000		3	位置決め板 SCREW, HEIGHT ADJUSTING	
9	FL2-0631-000		1	高さ調整ネジ CABLE, FLEXIBLE FLAT	
10	FU5-2284-000		1	フレキシブル フラット ケーブル SPRING, TENSION 引っ張りバネ	
11	FU5-2285-000		2	SPRING, TENSION	
12	XA9-1521-000		9	引っ張りバネ SCREW, RS, M3X6 PO ない	
13	XA9-1415-000		2	RS タイト ネジ SCREW, FLAT HEAD, M4 性 サンジ	
14	XF2-4610-840		1	特平ネジ BELT, TIMING カノミング・ベルト	
15	XG9-0508-000		2	タイミング ベルト BEARING, BALL, F688ZZ ボール ベアリング	
16	WT2-5565-000		6	CLAMP, CABLE	
17	WT2-5826-000		1	ソクセン オサエ BUSHING ゴング	
18	XA9-0265-000		2	ブッシング SCREW, W/WASHER, TRUSS HEAD	
19	FM2-1107-000		1	ザツキ バインド ネジ CABLE, READER POWER SUPPLY	
20	FM2-1108-000		1	リーダ電源束線 CABLE, ADF LATTICE CONNECTOR ADF ラティス コネクタ束線	
21	FK2-0149-000		3	PHOTO-INTERRUPTER, TLP1253 (C6)	
22	FB5-3636-000		1	フォトインタラプタ SPRING, TORSION	
23	FC5-2882-000		1	ネジリ バネ LEVER, SENSOR	
24	FK2-0237-000		1	センサ レバー MOTOR, STEPPING, DC	
25	FS5-9227-020		1	ステッピングDC モータ SCREW, STEPPED, M4 段ビス	
26	FM2-1102-000		1	ADF INTERFACE PCB ASSEMBLY	
27	FM2-1104-000		1	ADF インターフェース回路基板 CABLE, READER POWER SUPPLY	
28	FC5-2805-000		1	リーダ コントローラ電源ケーブル WIRE, RIGHT ロスタイナン	
29	FL2-0638-000		1	ワイヤ(右) SHAFT, DRIVE 駅動軸	
30	FM2-1105-000		1	駆動軸 CABLE, SENSOR センサ束線	
31	FM2-1111-000 *		1	READER CONTROLLER PCB ASSEMBLY	
501	XB1-2400-607		17	リーダ コントローラ回路基板 SCREW, MACH., TRUSS HEAD, M4X6	
502	XB3-6400-805		86	バインド ネジ SCREW, RS, M4X8 DC なんしょご	
503	XB6-2400-508		4	RS タイト ネジ 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	

FIGUR & KEY N		PART NUMBER	R A N K	Q' T Y	DESCRIPTION	REMARKS
211 -	505	XD2-1100-642		6	RING, E	
	506	XB6-7300-607		2	RING, E E リング SCREW, TP, M3X6 TP ネジ	
	507	XB1-2300-606		6	SCREW, MACH., TRUSS HEAD, M3X6 バインド ネジ	
	508	XB1-2260-806		2	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	FH5-1061-000		1	FAN	
2	FM2-1109-000		1	ファン CABLE, FAN CONNECTING	
3	VS1-7177-003		1	ファン中継束線 CONNECTOR, SNAP TIGHT, BK 中継コネクタ	
501	XB4-7303-007		2	中継コインタ SCREW, SELF-TAPPING, M3X30 バインド タッピン ネジ	
				ハイント ダッピン ネシ	

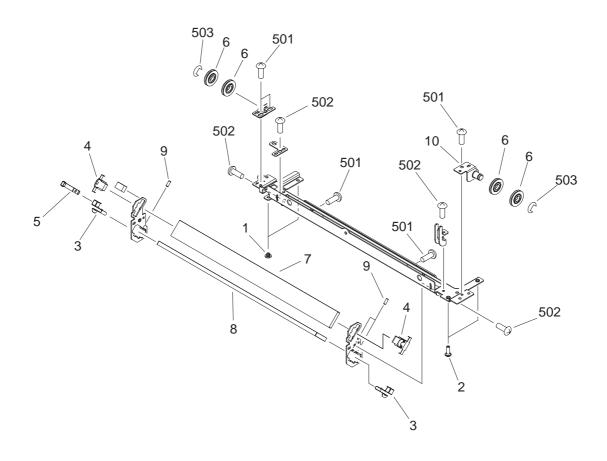
FIGURE 420 MIRROR ASSEMBLY 1 第1ミラー台部

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	Q' T	DESCRIPTION	REMARKS
	* 1 FC5-0127-000	K	Y 4	PIN, SLIDER	
	2 FC5-0128-000		1	スライダ ピン REFLECTOR	
	3 FC5-2835-000		2	反射笠 SPRING. LEAF. MIRROR	
	4 FK2-0224-000		1	ミラ一押さえバネ LAMP, XENON	
	5 FK2-0239-000		1	キセノン ランプ HOLDER, XENON LAMP キセノン ランプ ホルダ	
	6 FL2-0641-000		1	MIRROR, 1	
	7 WT2-5565-000		1	第1ミラー CLAMP, CABLE ソクセン オサエ	
50	1 XB2-8300-607		4	SCREW, W/WASHER, M3X6	
				バネツキ ネジ	

FIGURE 430 MIRROR ASSEMBLY 2 第2ミラー台部

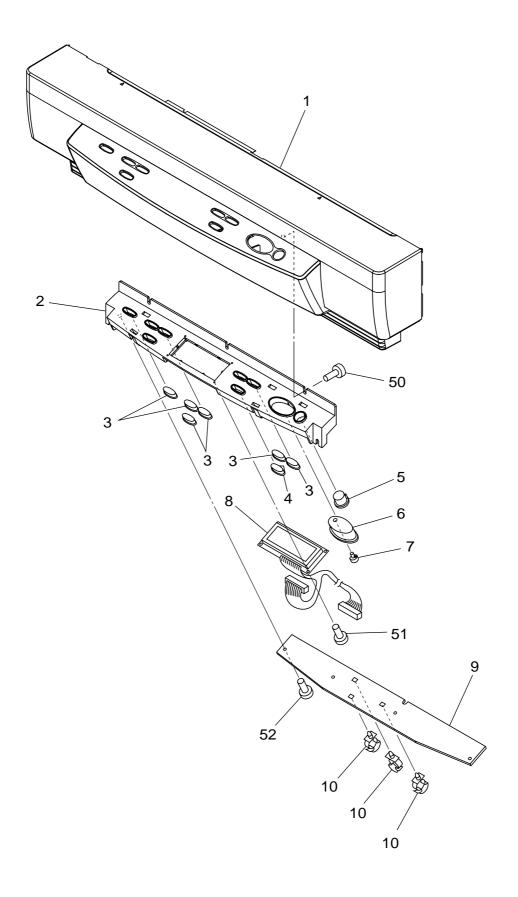


Note: 「*」印の部品は DR-7080C 専用部品です。その他は複写機流用部品です。

The parts marked "*" mean the unique parts of DR-7080C. The others are the commoned parts of Copier.

FIGUF & KEY N		PART NUMBER	R A N K	Q' T Y	DESCRIPTION	REMARKS
430 -	1	FC5-0127-000	10	2	PIN, SLIDER	
	2	FC5-0136-000		2	スライダ ピン PIN, SLIDER	
	3	FC5-0165-000		2	スライダ SPRING, LEAF, MIRROR	
	4	FC5-2840-000		2	ミラ一押さえバネ 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	プーリ MIRROR, 2	
	8	FN7-4013-000		1	第2ミラー MIRROR, 3	
	9	XA9-0425-000		3	第3ミラー SETSCREW, HEX SOCKET	
	10	FL2-0639-000		1	ロツカク アナツキ トメネジ MOUNT, PULLEY, FRONT プーリ台(前)	
	501	XB1-2300-406		5	SCREW, MACH., TRUSS HEAD, M3X4	
	502	XB2-8300-607		4	バインド ネジ SCREW, W/WASHER, M3X6	
	503	XD2-1100-642		2	バネツキ ネジ RING, E	
					E リング	

FIGURE 510 OPERATION PANEL ASSEMBLY 操作パネル部

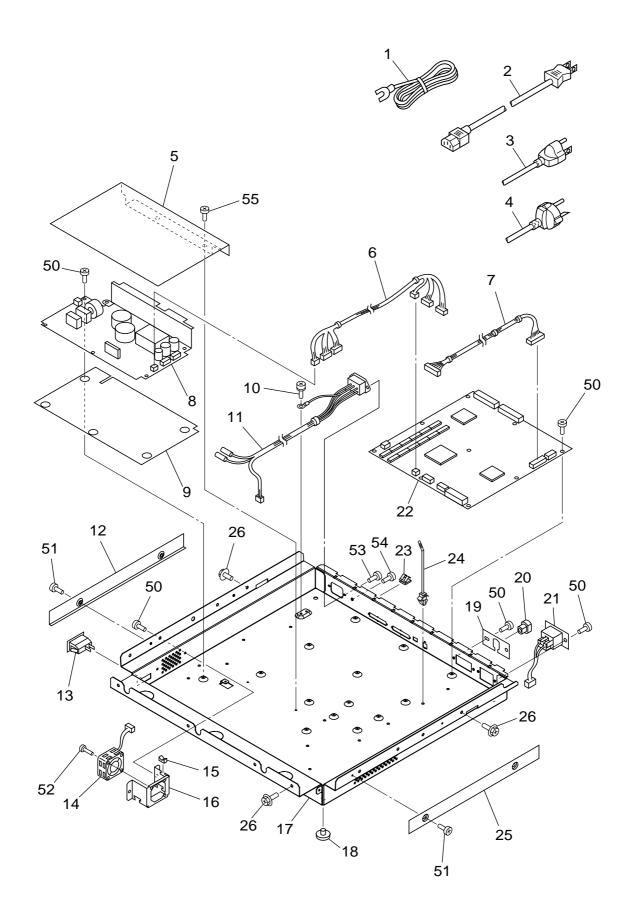


Note: 「*」印の部品は DR-7080C 専用部品です。その他は複写機流用部品です。

The parts marked "*" mean the unique parts of DR-7080C. The others are the commoned parts of Copier.

FIGURE &	PART NUMBER	R A N	Q' T	DESCRIPTION	REMARKS
KEY NO.	* MF1-4274-000 *	K	Y 1	COVER, OPERATION	
2	MA2-6948-000 *	N	1	ソウサ パネル カバー CASE, PANEL	
3	MA2-6949-000 *	N	6	パネル ケース KEY TOP, OPERATION	
4	MA2-6950-000 *	N	1	ソウサ キー KEY TOP, FILE	
5	MA2-6951-000 *	N	1	ファイル キー	
	WAZ 0931 000 *	14	'	KEY TOP, STOP ストップ キー	
6	MA2-6952-000 *	N	1	KEY TOP, START スタート キー	
7	MA2-6953-000 *	N	1	へう、「・」 GUIDE, LIGHT ライト ガイド	
8	MG1-3575-000 *		1	レCD UNIT LCD ユニット	
9	MG1-3569-000 *		1	PCB ASSEMBLY, SWITCH スイッチ カイロ キバン	
10	WT2-5134-000		3	スイッテ ハイロ ギハン 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 タイト M3 L6 SCREW, BH M2.5x4	
52	XB1-2300-605		4	30 m m 20 m m 20 m m m 20 m m m m m m m m	
32	XB1 2300 003		7	バインド M3 L6	

FIGURE 520 CONTROLLER ASSEMBLY コントローラ部



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 &	F	PART NUMBER	RAN	Q' T	DESCRIPTION	REMARKS
KEY NO. 520 -	1	* FH2-5006-030 *	K	Y 1	CORD, GROUNDING	100V
320		RH9-1015-020 *		1	アース コード POWER CORD	100V
					デンゲン コード 100V	
		RH2-5145-020 *		1	POWER CORD デンゲン コード 120V	120V
		RH2-5116-030 *		1	POWER CORD デンゲン コード 230V	220-240V
	5 1	MA2-6960-000 *	N	1	INSULATOR, UPPER デンゲンヨウ ゼツエン シート(ウエ)	
	6 I	MG1-3571-000 *		1	CABLE ASSEMBLY, DC IN	
	7 1	MG1-3574-000 *		1	DC IN ケーブル CABLE ASSEMBLY, OPERATION	
	8 1	MH3-2059-000 *		1	ソウサ ケーブル PCB ASSEMBLY, POWER	
	9 1	MA2-6961-000 *	Ν	1	デンゲン INSULATOR, LOWER	
1	0	FA9-2113-000		1	デンゲンヨウ ゼツエン シート(シタ) SCREW, W/TOOTH WASHER M4x8 キクザツキ バインド ビス	
1	1 1	MG1-3570-000 *		1	CABLE ASSEMBLY, AC	
1	2 1	MA2-6962-000 *		1	AC ケーブル COVER LOWER LEFT	
1	3 1	MH7-6010-000 *		1	ヒダリ シタ カバー SWITCH, POWER SUPPLY	
1	4 1	MG1-3576-000 *		1	シーソー スイッチ FAN ASSEMBLY	
1	5	WT2-5056-000		1	DC ファン CLIP, CABLE エッジ サドル	
1	6 1	MA2-6959-000 *	N	1	PLATE, FAN	
1	7 1	MA2-6956-000 *	N	1	ファン トリツケ バン BOX, BOTTOM	
1	8	XH9-0133-000 *	N	4	デンゲン シャーシ FOOT, PLASTIC	
1	9 1	MA2-6958-000 *	N	1	プラスティフット PLATE, DDI CABLE	
2	١ 0	WT2-0313-000		1	DDI ケーブル トリツケ バン BUSHING, CABLE	
		MO4 0570 000 :			ブッシュ	
		MG1-3573-000 *		1	CABLE ASSEMBLY, DC OUT DC OUT ケーブル	
		MG1-3568-000 *		1	PCB ASSEMBLY, CONTROL DCON カイロ キバン	
		MH7-9020-000 *	N	9	PLATE, GROUNDING フィンガー	
		WT2-5178-000		4	CLIP, CABLE スナップ バンド	
2	!5 I	MA2-6963-000 *		1	COVER, LOWER RIGHT ミギ シタ カバー	
	.6	XA9-0633-000 *		12	SCREW, W/WASHER M4x8	
5	0	XB1-2300-605		27	RS タイト ザガネツキ M4 L8 SCREW, BH M3x6	
5	1 :	XB4-7300-609		4	バインド M3 L6 SCREW, TAPPING, BH M3x6	
5	2	XB1-2302-509		2	B タイト M3 L6 SCREW, BH M3x25	
Ę	3	XB1-2400-605		2	バインド M3 L25 SCREW, BH M4x6 バインド M4 L6	
5	4	XB2-4400-605		1	SCREW, W-WASHER M4x6	
5	55	XB1-2300-409		2	ダブル セムス M4 L6 SCREW, BH M3x4	
					バインド M3 L4	

〒369-1892

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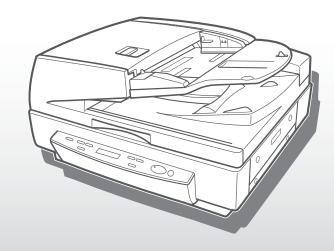
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FCC REGULATIONS (For 120V/220-240V models)

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Do not make any changes or modifications to the equipment unless otherwise specified in the manual. If such changes or modifications should be made, you could be required to stop operation of the equipment.

RADIO INTERFERENCE REGULATIONS (For 120V models)

This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus as set out in the Interference-causing equipment standard entitled "Digital Apparatus", ICES-003 of the Industry Canada.

RÈGLEMENT SUR LE BROUILLAGE RADIOÉLECTRIQUE (For 120V models)

Cet appareil numérique respecte les limites de bruits radioélectriques applicables aux appareils numériques de Classe A prescrites dans la norme sur le matériel brouilleur: "Appareils Numériques", NMB-003 édictée par l'Industrie Canada.

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.



READ CAREFULLY BEFORE OPENING THE SEALED DISK PACKAGE

CANON SOFTWARE LICENSE AGREEMENT

IMPORTANT-READ THIS AGREEMENT BEFORE OPENING THE SEALED DISK PACKAGE! BY OPENING THE SEALED DISK PACKAGE, YOU ARE DEEMED TO AGREE TO BE BOUND BY THIS AGREEMENT.

This legal document is a license agreement between you and Canon Electronics Inc. ("Canon"). BY OPENING THE SEALED DISK PACKAGE, YOU ARE DEEMED TO AGREE TO BE BOUND BY THE TERMS OF THIS AGREEMENT. IF YOU DO NOT AGREE TO THE TERMS OF THIS AGREEMENT, DO NOT OPEN THE SEALED DISK PACKAGE AND PROMPTLY RETURN THE CANON SCANNER, THE DISK PACKAGE CONTAINING SCANNER DRIVER SOFTWARE PROGRAMS AND/OR SCANNER UTILITY SOFTWARE PROGRAM PROPRIETARY TO CANON OR ITS LICENSOR (THE "SOFTWARE") AND THE ACCOMPANYING DOCUMENTATION AND OTHER ITEMS TO THE PLACE WHERE YOU OBTAINED THEM FOR A REFUND BEFORE THEY ARE USED OR OPENED OR UNPACKED.

In consideration of the right to use the SOFTWARE, you agree to abide by the terms and conditions of this Agreement.

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You shall not assign, sublicense, sell, rent, lease, loan, convey or transfer to any third party, or send or bring the SOFTWARE out of the country where you originally obtain it to other countries without required authorization of applicable governments, or copy, duplicate, translate or convert to another programming language the SOFTWARE or accompanying documentation, except as expressly provided herein.

Except as expressly permitted under the applicable law, you shall not alter, modify, disassemble, decompile or otherwise reverse engineer the SOFTWARE or accompanying documentation and you also shall not have any third party to do so.

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3. SUPPORT AND UPDATE: Canon, Canon's affiliate, their distributor or dealer is not responsible for maintaining or helping you to use the SOFTWARE. No updates, fixes or support will be made available for the SOFTWARE.

4. LIMITED WARRANTY AND DISCLAIMER OF INDEMNITY: Canon, Canon's affiliate, their distributor or dealer will not guarantee uninterrupted service, or absence or correction of errors. Therefore, the SOFTWARE is licensed on an "AS IS" basis without warranty of any kind. The diskette on which the SOFTWARE is recorded is warranted against defective material or workmanship under normal use for a period of ninety (90) days from the date you purchased the same as evidenced by a receipt or otherwise. The limited warranty does not apply if the failure of the diskette resulted from accident, abuse or misapplication of the SOFTWARE and shall not extend to anyone other than the original user of the SOFTWARE.

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CANON, CANON'S AFFILIATE, THEIR DISTRIBUTOR OR DEALER SHALL HAVE NO OBLIGATION TO INDEMNIFY YOU AGAINST ANY CLAIM OR SUIT BROUGHT BY A THIRD PARTY ALLEGING THAT THE SOFTWARE, ACCOMPANYING DOCUMENTATION OR THE USE THEREOF INFRINGES ANY INTELLECTUAL PROPERTY OF SUCH THIRD PARTY.

THE ABOVE IS CANON'S ENTIRE LIABILITY AND YOUR EXCLUSIVE REMEDY IN CONNECTION WITH THE SOFTWARE AND ACCOMPANYING DOCUMENTATION

5. TERM: This Agreement is effective upon opening the sealed disk package and remains in effect until terminated. You may terminate this Agreement by destroying the SOFTWARE and any copy thereof. This Agreement will also terminate if you fail to comply with any of the terms of this Agreement. In addition to Canon enforcing its respective legal rights, you must then promptly destroy the SOFTWARE and any copy thereof.

6. U.S. GOVERNMENT RESTRICTED RIGHTS NOTICE: The SOFTWARE is provided with RESTRICTED RIGHTS. Use, duplication or disclosure is subject to restrictions as set forth in either subparagraph (c) (1) (ii) of the Rights in Technical Data and Computer Software clause at DFARs 252.227-7013 or subparagraph (c) (1) and (2) of the Commercial Computer Software Restricted Rights Clause at FAR 52.227-19, as applicable.

7. SEVERABILITY: In the event that provision of this Agreement is declared or found to be illegal by any court or tribunal of competent jurisdiction, such provision shall be null and void with respect to the jurisdiction of that court or tribunal and all the remaining provisions of this Agreement shall remain in full force and effect.

8. ACKNOWLEDGEMENT: BY OPENING THE SEALED DISK PACKAGE, YOU ACKNOWLEDGE THAT YOU HAVE READ THIS AGREEMENT, UNDERSTOOD IT, AND AGREE TO BE BOUND BY ITS TERMS AND CONDITIONS. YOU ALSO AGREE THAT THIS AGREEMENT IS THE COMPLETE AND EXCLUSIVE STATEMENT OF AGREEMENT BETWEEN YOU AND CANON CONCERNING THE SUBJECT MATTER HEREOF AND SUPERSEDES ALL PROPOSALS OR PRIOR AGREEMENTS, VERBAL OR WRITTEN, AND ANY OTHER COMMUNICATIONS BETWEEN YOU AND CANON RELATING TO THE SUBJECT MATTER HEREOF. NO AMENDMENT TO THIS AGREEMENT SHALL BE EFFECTIVE UNLESS SIGNED BY A DULY AUTHORIZED REPRESENTATIVE OF CANON.

Should you have any questions concerning this Agreement, or if you desire to contact Canon for any reason, please write to Canon's local affiliate.

A LIRE ATTENTIVEMENT AVANT D'OUVRIR L'EMBALLAGE SCELLE CONTENANT LA DISQUETTE!

CONTRAT DE LICENCE D'UTILISATION D'UN LOGICIEL CANON

Important — VEUILLEZ LIRE LE PRESENT CONTRAT avant d'ouvrir l'emballage scellé contenant lA DISQUETTE. EN OUVRANT CET EMBALLAGE SCELLE. VOUS ACCEPTEZ D'ETRE LIE PAR LE PRESENT CONTRAT.

Le présent acte juridique est un contrat de licence entre Canon Electronics Inc. («Canon») et vous-même. L'OUVERTURE DE L'EMBALLAGE SCELLE DE LA DISQUETTE INDIQUERA VOTRE ACCEPTATION DE VOUS LIER PAR LES DISPOSITIONS DU PRESENT CONTRAT. SI VOUS N'ACCEPTEZ PAS LES TERMES DU PRESENT CONTRAT, N'OUVREZ PAS L'EMBALLAGE SCELLE DE LA DISQUETTE ET RETOURNEZ RAPIDEMENT LE SCANNER CANON, L'EMBALLAGE AVEC LA DISQUETTE CONTENANT LES PROGRAMMES LOGICIELS PILOTES DE SCANNER ET/OU L'UTILITE-DE SCANNER PROPRIETE DE CANON OU DE SON CONCEDANT (CI-APRES DENOMMES LE « LOGICIEL ») AINSI QUE LA DOCUMENTATION ET LES AUTRES ARTICLES QUI L'ACCOMPAGNENT OU VOUS LES AVEZ ACHETES POUR EN OBTENIR LE REMBOURSEMENT AVANT UTILISATION, OUVERTURE OU DEBALLAGE.

En contrepartie du droit d'utiliser le Logiciel, vous acceptez de respecter les termes et conditions du présent Contrat.

1. CONCESSION DE LICENCE: Canon vous octroie le droit personnel et non exclusif d'utiliser ce LOGICIEL sur un ordinateur unique. Le LOGICIEL peut être physiquement transféré d'un ordinateur à un autre à condition qu'il ne soit utilisé que sur un ordinateur à la fois.

Vous n'êtes pas autorisé à céder, consentir une sous-licence, vendre, donner à bail, louer, prêter, transmettre à un tiers le LOGICIEL, ni à l'envoyer ou l'emmener hors du pays où vous vous l'êtes procuré sans l'autorisation nécessaire des autorités compétentes, ni à copier, dupliquer, traduire ou convertir dans un autre langage de programmation le LOGICIEL ou la documentation qui l'accompagne, à l'exception de ce qui est expressément prévu aux présentes.

Sauf autorisation expresse conforme a la legislation en vigueur, vous ne pouvez pas alterer, modifier, desassembler, decompiler ou effectuer des operations d'ingenierie inverse de quelque sorte que ce soit sur le LOGICIEL, ni autoriser une tierce personne a le faire.

2. COPIE DE SAUVEGARDE: Vous êtes autorisé à faire une copie du LOGICIEL uniquement à des fins de sauvegarde, ou à l'installer sur la mémoire permanente (disque dur par exemple) de votre ordinateur et à conserver l'original uniquement comme sauvegarde. Sauf autorisation expresse conforme a la legislation en vigueur, toute autre copie du LOGICIEL est une violation du présent contrat. L'avis sur les droits d'auteur doit être reproduit et inclus avec la copie de sauvegarde.

3. AIDE ET MISE A JOUR: Canon, sa filiale, leur distributeur ou revendeur ne sont pas responsables de la mise à jour ou de l'aide à l'utilisation du LOGICIEL. Aucune mise à jour, correction ni aide ne seront disponibles pour ce LOGICIEL.

4. EXCLUSION DE GARANTIE ET D'INDEMNISATION: Canon, sa filiale, leur distributeur ou revendeur ne garantissent pas un fonctionnement ininterrompu, ni l'absence ou la correction des erreurs. La licence est par conséquent concédée pour le LOGICIEL « en l'état », sans garantie de quelque nature que ce soit. La disquette contenant le LOGICIEL est garantie contre tout défaut de fabrication ou de main d'oeuvre pour autant qu'un usage normal en soit fait et ce pendant une période de quatre-vingt-dix (90) jours à compter de la date d'achat, reçu ou autre preuve d'achat faisant foi. La garantie limitée ne s'applique pas si la défaillance de la disquette résulte d'un accident, d'une utilisation abusive ou erronée du LOGICIEL et ne couvre en aucun cas une personne autre que le premier utilisateur du LOGICIEL.

CANON, SA FILIALE, LEUR DISTRIBUTEUR OU REVENDEUR EXCLUENT TOUTES GARANTIES, Y COMPRIS TOUTE GARANTIE DE QUALITE MARCHANDE OU DE CONVENANCE A UNE UTILISATION SPECIFIQUE, EN CE QUI CONCERNE LE LOGICIEL OU LA DOCUMENTATION QUI L'ACCOMPAGNE.

NI CANON, NI SA FILIALE, NI LEUR DISTRIBUTEUR OU REVENDEUR NE SONT RESPONSABLES D'AUCUN DOMMAGE OU PERTE INDIRECT OU ACCESSOIRE, Y COMPRIS D'UN MANQUE A GAGNER, DE FRAIS OU DE PERTURBATIONS, QUELS QU'ILS SOIENT, CAUSES PAR OU PROVENANT DU LOGICIEL, DE LA DOCUMENTATION QUI L'ACCOMPAGNE OU DE LEUR UTILISATION.

CANON, SA FILIALE, LEUR DISTRIBUTEUR OU REVENDEUR NE SERONT TENUS D'AUCUNE OBLIGATION D'INDEMNISATION À VOTRE EGARD RELATIVE A UNE QUELCONQUE RECLAMATION OU ACTION EN JUSTICE FORMEE PAR UN TIERS PRETENDANT QUE LE LOGICIEL, LA DOCUMENTATION QUI L'ACCOMPAGNE OU LEUR UTILISATION CONSTITUERAIENT LA CONTREFACON D'UN OUELCONOUE DROIT DE PROPRIETE INTELLECTUELLE DE CE TIERS.

CE QUI PRECEDE CONSTITUE L'INTEGRALITE DES OBLIGATIONS DE CANON ET REPRESENTE VOTRE SEUL RECOURS EN CE QUI CONCERNE LE LOGICIEL ET LA DOCUMENTATION QUI L'ACCOMPAGNE.

5. DUREE: Le présent Contrat entrera en vigueur au moment où vous ouvrirez l'emballage scellé de la disquette et demeurera applicable jusqu'à sa résiliation. Vous pouvez résilier le présent Contrat en détruisant le LOGICIEL et toute copie de ce dernier. Le présent Contrat sera également résilié si vous violez l'une des dispositions du présent Contrat. Outre l'application de ses droits propres par Canon, vous devrez alors détruire rapidement le Logiciel et toute copie de ce dernier.

6. NOTICE RELATIVE AUX DROITS RESTREINTS IMPOSES PAR L'ADMINISTRATION FEDERALE AMERICAINE: Le LOGICIEL est fourni avec des DROITS RESTREINTS. Son usage, sa reproduction ou sa divulgation sont soumis aux restrictions énoncées soit au sous-paragraphe (c) (1) (ii) de l'article 252.227-7013 du DFARS relatif aux Droits sur les données techniques et les logiciels informatiques, soit au sous-paragraphe (c) (1) et (2) de l'article 52.227-19 du FAR relatif aux Droits restreints sur les logiciels informatiques à caractère commercial, selon le cas.

7. DIVISIBILITE: Au cas où une disposition du présent Contrat serait déclarée ou considérée comme illégale par un tribunal ou une juridiction ayant compétence, cette disposition sera nulle et non avenue au regard de ce tribunal ou de cette juridiction, et toutes les dispositions subsistantes du présent Contrat conserveront leur plein et entier effet.

8. RECONNAISSANCE: EN OUVRANT L'EMBALLAGE SCELLE DE LA DISQUETTE, VOUS RECONNAISSEZ AVOIR LU LE PRESENT CONTRAT, L'AVOIR COMPRIS, ET ACCEPTEZ D'ETRE LIE PAR SES TERMES ET CONDITIONS. VOUS ACCEPTEZ EGALEMENT QUE LE PRESENT CONTRAT CONSTITUE L'ACCORD INTEGRAL ET EXCLUSIF ENTRE CANON ET VOUS-MEME CONCERNANT L'OBJET DES PRESENTES ET SE SUBSTITUE A TOUTES LES PROPOSITIONS OU ENGAGEMENTS ANTERIEURS, VERBAUX OU ECRITS, ET TOUTES AUTRES COMMUNICATIONS ENTRE LES PARTIES RELATIVES A L'OBJET DES PRESENTES. AUCUNE MODIFICATION DU PRESENT CONTRAT NE POURRA EMPORTER EFFET A MOINS D'ETRE SIGNEE PAR UN RESPONSABLE DUMENT AUTORISE DE CANON.

Si vous aviez des questions concernant le présent Contrat, ou si vous désiriez entrer en contact avec Canon pour quelque motif que ce soit, veuillez écrire à la filiale locale de Canon la plus proche de votre domicile.

<u>vor dem öffnen der versiegelten diskettenpackung bitte aufmerksam lesen</u>

CANON SOFTWARE-LIZENZVERTRAG

WICHTIG - LESEN SIE DIESEN VERTRAG, BEVOR SIE DIE VERSIEGELTE DISKETTENPACKUNG ÖFFNEN! DURCH ÖFFNEN DER VERSIEGELTEN DISKETTENPACKUNG ERKLÄREN SIE SICH MIT DIESEN VERTRAGSBEDINGUNGEN EINVERSTANDEN.

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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 PARTEI ANGEBLICH 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 EINVERSTÄNDNISERKLÄRUNG 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 ANGELEGENHEIT 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 QUE ACEPTA LAS CLÁUSULAS DE ESTE CONTRATO.

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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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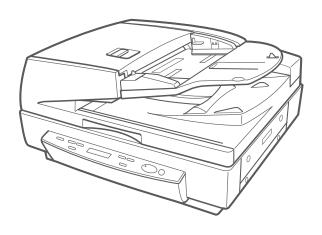
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Canon

DR-7080C INSTRUCTIONS



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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.



Caution notices are also provided for your safety and contain important information. Failure to observe the instructions provided in a caution notice could result in serious injury to yourself or your coworkers or damage to the equipment.



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.



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Notes provide additional tips or advice that can save you time and effort in using the scanner.

CONTENTS

INT	RODUCTION	1
	Conventions	1
Safe	ety Precautions	5
	Safe Operation	5
	Installation Location	7
	Power Supply	8
	Opening and Closing the Feeder	8
	Carrying	9
Ch	apter 1 Getting Ready	
1.1	Features of the DR-7080C	12
1.2	Before Getting Started	. 14
	Unpacking	14
	Removing the Transportation Screw	15
	Ferrite Core	15
1.3	Part Names	. 16
	Feeder	16
	Flatbed	17
	Rear	
	Operation Panel	19
1.4	Job Function	. 20
1.5	Optional Products	21
	Stamp Unit	21
Ch	apter 2 Connecting to a Computer	
2.1	Checking Your Operating Environment	24
2.2	Connecting to a Computer	
	SCSI Connections	25
	◆ SCSI Cards	25
	◆ Connecting the SCSI Cable	
	◆ Attaching the Ferrite Core	
	◆ Setting the SCSI ID and Terminator	27
	◆ Setting the SCSI Transfer Speed	29

	USB Connections	29
	◆ USB 2.0 Interface Cards	29
	◆ Connecting a USB Interface Cable	30
	Connecting the Power Cord	30
2.3	Turning ON or OFF the Power	31
	Turning ON the Power	31
	Recognizing the Scanner	32
	Turning OFF the Power	34
Cha	apter 3 Using the Software	
3.1	About the Software	
3.2	Installing the Software	37
3.3	How to Use the Software	
0.0	How to Display the ISIS/TWAIN Driver Help File	
	How to Start CapturePerfect	
	How to Start the Job Registration Tool	
3.4	Uninstalling the Software	
	apter 4 Using the Scanner	
4.1	Documents	
4.1	Types of Documents	46
	Types of DocumentsFeeder Capacity	46 47
4.1 4.2	Types of Documents Feeder Capacity Placing Documents onto the Scanner	46 47
	Types of Documents Feeder Capacity Placing Documents onto the Scanner Loading a Document into the Feeder	46 47 48
4.2	Types of Documents Feeder Capacity Placing Documents onto the Scanner Loading a Document into the Feeder Positioning a Document on the Flatbed (Platen Glass)	46484851
	Types of Documents Feeder Capacity Placing Documents onto the Scanner Loading a Document into the Feeder Positioning a Document on the Flatbed (Platen Glass) Document Feeding and Scanning	46484851
4.2	Types of Documents Feeder Capacity Placing Documents onto the Scanner Loading a Document into the Feeder Positioning a Document on the Flatbed (Platen Glass) Document Feeding and Scanning Scan Procedure	
4.2	Types of Documents Feeder Capacity	
4.2	Types of Documents Feeder Capacity	46 48 51 54 55
4.2 4.3	Types of Documents Feeder Capacity Placing Documents onto the Scanner Loading a Document into the Feeder Positioning a Document on the Flatbed (Platen Glass) Document Feeding and Scanning Scan Procedure Standard Feeding Panel Feeding Automatic Feeding	
4.2	Types of Documents Feeder Capacity Placing Documents onto the Scanner Loading a Document into the Feeder Positioning a Document on the Flatbed (Platen Glass) Document Feeding and Scanning Scan Procedure Standard Feeding Panel Feeding Automatic Feeding Other Scanning Techniques	
4.2 4.3	Types of Documents Feeder Capacity Placing Documents onto the Scanner Loading a Document into the Feeder Positioning a Document on the Flatbed (Platen Glass) Document Feeding and Scanning Scan Procedure Standard Feeding Panel Feeding Automatic Feeding Other Scanning Techniques Using the Job Mode for Scanning	
4.2 4.3	Types of Documents Feeder Capacity Placing Documents onto the Scanner Loading a Document into the Feeder Positioning a Document on the Flatbed (Platen Glass) Document Feeding and Scanning Scan Procedure Standard Feeding Panel Feeding Automatic Feeding Other Scanning Techniques Using the Job Mode for Scanning Setting the Event Function	
4.2 4.3	Types of Documents Feeder Capacity Placing Documents onto the Scanner Loading a Document into the Feeder Positioning a Document on the Flatbed (Platen Glass) Document Feeding and Scanning Scan Procedure Standard Feeding Panel Feeding Automatic Feeding Other Scanning Techniques Using the Job Mode for Scanning Setting the Event Function Using the Count Only Mode	
4.2 4.3	Types of Documents Feeder Capacity Placing Documents onto the Scanner Loading a Document into the Feeder Positioning a Document on the Flatbed (Platen Glass) Document Feeding and Scanning Scan Procedure Standard Feeding Panel Feeding Automatic Feeding Other Scanning Techniques Using the Job Mode for Scanning Setting the Event Function	
4.2 4.3	Types of Documents Feeder Capacity	
4.2 4.3	Types of Documents Feeder Capacity Placing Documents onto the Scanner Loading a Document into the Feeder Positioning a Document on the Flatbed (Platen Glass) Document Feeding and Scanning Scan Procedure Standard Feeding Panel Feeding Automatic Feeding Using the Job Mode for Scanning Setting the Event Function Using the Count Only Mode Using Patch Code Sheets Patch Code Sheets	

Ch	apter 5 User Modes	
5.1	User Mode Functions	70
Ch	apter 6 Troubleshooting	
6.1	When the Scanner Is Not Recognized	74
	SCSI Connections	74
	USB Connections	
6.2	Clearing Paper Jams	77
	Clearing a Paper Jam	
	Paper Jam Causes	
6.3	When the Scanned Image Is Not Normal	
6.4	Display Messages	
	Error Messages	
6.5	Scanner Status Messages Troubleshooting	
	apter 7 User Maintenance	
7.1	Changing the Stamp Cartridge	90
7.2	Daily Cleaning	
	Cleaning the Main Unit	
	Cleaning the Flatbed (Platen Glass) and Pressure Board (Black)	
	Cleaning the Feeder	
	Cleaning the Power Plug	98
Ар	pendix	
Spe	cifications	100
	Specification for the Scanner	100
	Options	
	Consumables	
	Exterior Dimensions	
Inde	7 Y	103

Safety Precautions

Safe Operation

When you are working around the scanner, follow these precautions to avoid the hazards of fire and electrical shock:



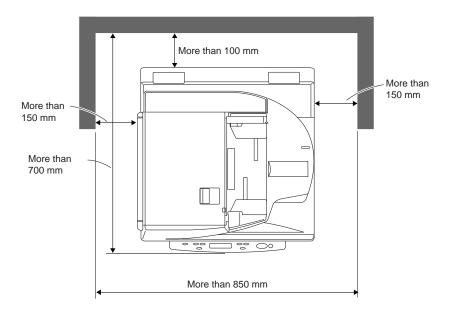
- Never install and operate the scanner near flammable substances such as alcohol, paint thinner, benzene, or any other type of volatile solution.
- Never damage or modify the power cord, and never place heavy objects on the power cord
- Always make sure that your hands are dry when you are handling 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

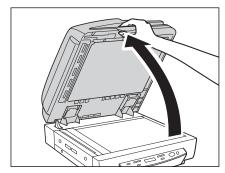
 Near electronic equipment or heavy equipment that generates a strong magnetic field, such as a speaker, TV, or radio.

Power Supply

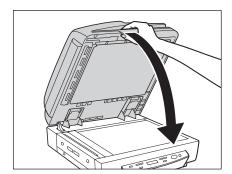
- Be sure to connect to an AC 220-240 V (50/60 Hz) power supply, according to your region's requirement.
- Ensure that the scanner is connected to an independent power outlet. Do not plug the scanner into an outlet shared with another device. If you use an extension cord, pay attention to the total amperage 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.

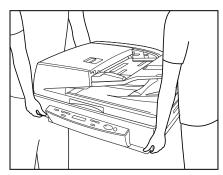


■ Close the feeder carefully and slowly, taking care to avoid pinching your fingers.



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.

1.1	Features of the DR-7080C	12
1.2	Before Getting Started	14
	Unpacking	14
	Removing the Transportation Screw	15
	Ferrite Core	
1.3	Part Names	16
	Feeder	16
	Flatbed	17
	Rear	18
	Operation Panel	19
1.4	Job Function	20
1.5	Optional Products	21
	Stamp Unit	



Features of the DR-7080C

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.



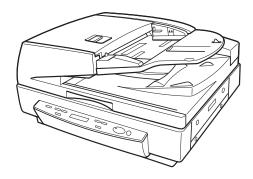
Before Getting Started

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



Instructions (this manual)



Quick Reference



Setup Disc



Power Cord*

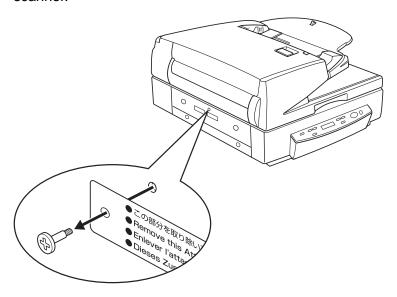


Ferrite Core

^{*} 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.)

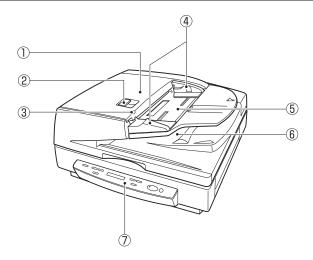


When connecting to another SCSI device sequentially after connecting a SCSI cable to the scanner, be sure to attach the ferrite core to the SCSI cable. If you use the scanner without attaching the ferrite core, radio wave interference may occur.

1.3 Part Names

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.)

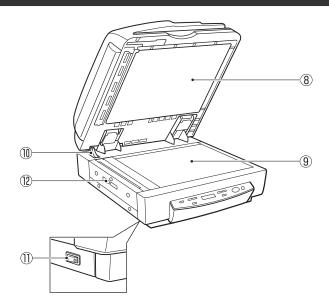
6 Document Eject Tray

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.)

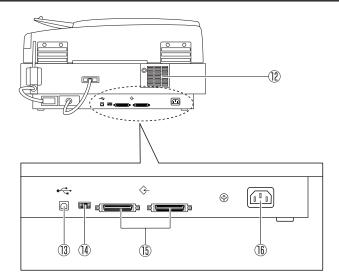
10 Opening Sensor

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.)

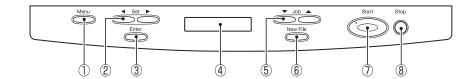
16 Power Cord Connector

Connect the provided power cord here.



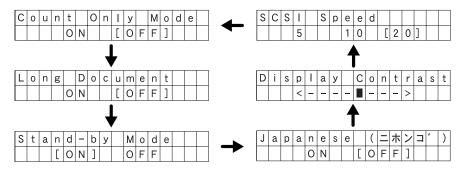
- Never touch the cables on the left side of the back panel. Disconnection of cables can cause a malfunction of the scanner.
- Take care to ensure that the vents never become blocked. Blocked vents can lead to heat build-up inside the scanner and create the risk of fire.

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.

The start of th

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.

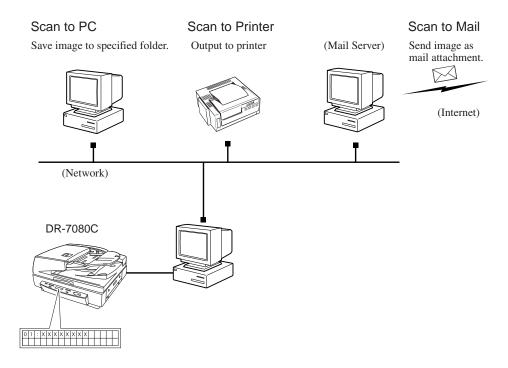


The DR-7080C comes with a "Job function" that makes it possible to perform scanning without starting a scanning application. The Job function lets you use the operation panel to perform scanning and forward image files to destinations in accordance with the currently selected job.

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.





The Job function is not supported on a computer that is running Windows NT.

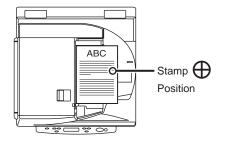
1.5 Optional Products

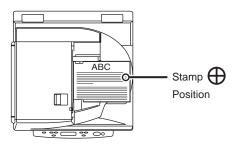
The following options can be purchased and used on the DR-7080C, if they are necessary. Contact your sales representative.

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.

2.1	Checking Your Operating	
	Environment	24
2.2	Connecting to a Computer	25
	SCSI Connections	25
	USB Connections	29
	Connecting the Power Cord	30
2.3	Turning ON or OFF the Power	31
	Turning ON the Power	31
	Recognizing the Scanner	32
	Turning OFF the Power	34



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.



- 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.



Connecting to a Computer

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.
- 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.

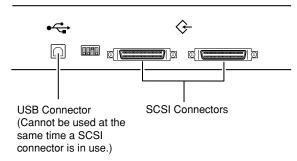
◆ Connecting the SCSI Cable



- 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

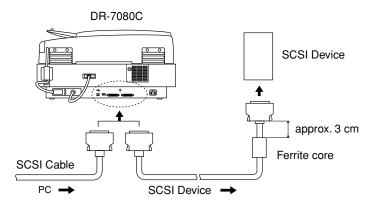
When connecting to another SCSI device sequentially for use after connecting a SCSI cable to the scanner in a daisy chain, attach the supplied ferrite core at the specified location. (See "Location for attaching ferrite core," on p. 27.)



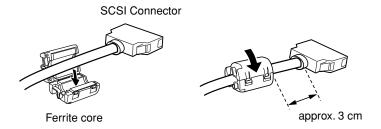
When connecting to another SCSI device sequentially after connecting a SCSI cable to the scanner, be sure to attach the ferrite core to the SCSI cable. If you use the scanner without attaching the ferrite core, radio wave interference may occur.

Location for attaching ferrite core

Attach the ferrite core to the SCSI cable connecting the scanner to the next SCSI device.



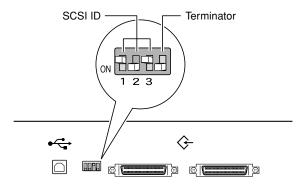
Clamp the ferrite core on the SCSI cable approximately 3 cm from the connector of the next SCSI device to be connected, closing it until you hear a clicking sound.



♦ 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.



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.



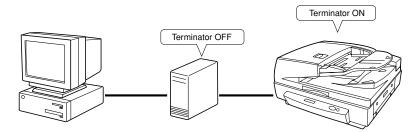
- The SCSI ID default is set to 2.
- Assign SCSI ID numbers ranging from 0 to 7 for each SCSI device. Do not select 7 as
 this is normally assigned to the SCSI controller. If a SCSI hard disk is mounted, do
 not use 0 and 1. Normally 0 and 1 are assigned for hard disks.

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.

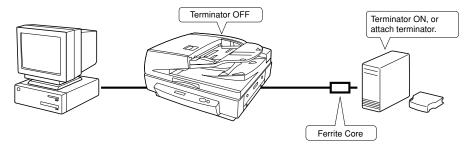
In such a connection, be sure to set the terminator on all other SCSI devices to OFF.



<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)

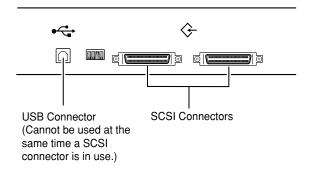


- Be sure to follow the installation procedure in your computer's operation manual when installing the USB 2.0 interface card on your computer.
- Use the most recent USB 2.0 driver provided by Adaptec or Microsoft.
- Windows NT operating system does not support USB. Use a SCSI cable to connect the scanner 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



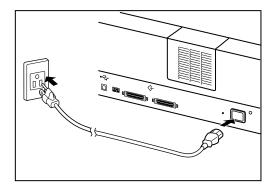
Do not connect both a SCSI cable and USB interface cable at the same time.



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.



Turning ON or OFF the Power

Follow the procedures below to turn ON or OFF the scanner power.

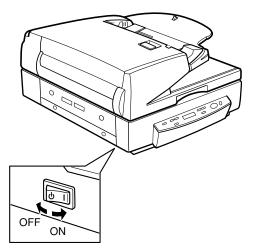
Turning ON the Power



Be sure to turn ON the power of all connected SCSI devices before you turn ON the computer.

1 Turn ON the scanner.

The illustration below shows the location of the power switch.



Turning ON the scanner causes the display panel to appear as shown below.

R	е	a	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.



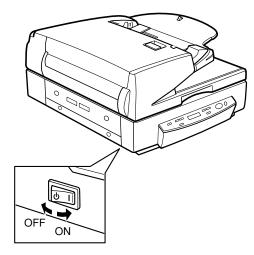
If you cancel device driver installation part way through, you will not be able to use the Job function. (See "Job Function," on p. 20.) Always perform the entire device driver installation procedure all the way to the end.

Turning OFF the Power



If you are using a SCSI connection, turn OFF the computer first, before turning OFF the scanner.

- 1 Turn OFF the computer.
- 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.

3.1	About the Software	36
3.2	Installing the Software	37
3.3	How to Use the Software	39
	How to Display the ISIS/TWAIN	
	Driver Help File	39
	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.

1 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.

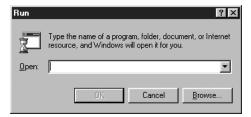
This manual assumes that "D" is assigned to your CD-ROM drive.

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:.

Job Registration Tool: D:\JobTool\setup.exe

- ****** 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
- 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.



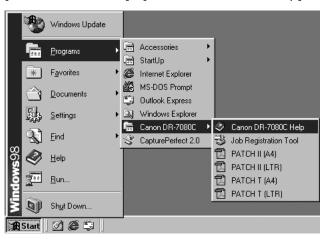
How to Use the Software

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].

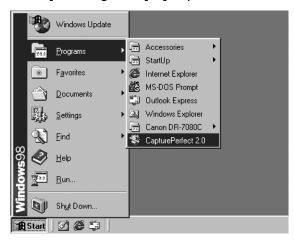


How to Start CapturePerfect

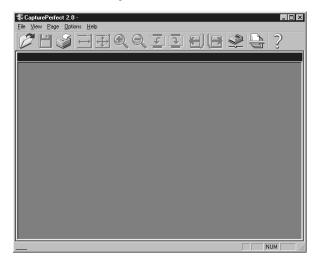
This section describes the procedure to start and exit CapturePerfect. See [Help] in CapturePerfect for information on how to use CapturePerfect.

Click the [Start] button, and then click [Programs] - [CapturePerfect 2.0].

Click [All Programs] - [CapturePerfect 2.0] if your OS is Windows XP.



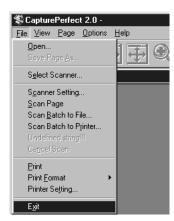
2 This starts CapturePerfect.





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.



How to Start the Job Registration Tool

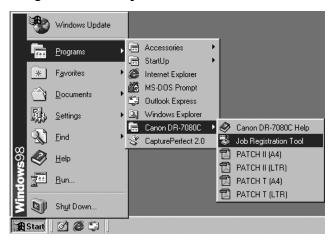
This section describes the procedure to start and end the Job Registration Tool. See [Help] in the Job Registration Tool for information on how to use the Job Registration Tool. Alternatively, for information on scanning procedures using the Job function, see "Using the Job Mode for Scanning," on p. 59.



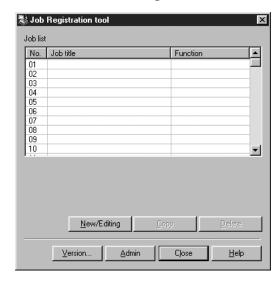
- If you are using Windows 2000 or Windows XP, be sure to log on as an Administrator.
- The Job function is not supported on a computer that is running Windows NT. If you want to use the Job function, run the scanner with a computer running a supported operating system other than Windows NT.

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.





- 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.



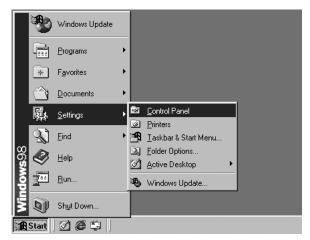
Uninstalling the Software

This section explains how to uninstall the software.

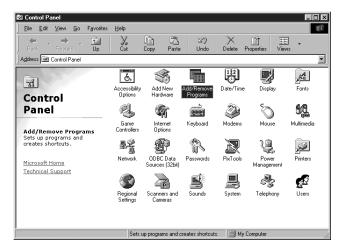


- Be sure to log on as an administrator if your system is Windows NT 4.0 Workstation, Windows 2000 Professional, or Windows XP.
- The dialogs and button names in Windows XP are different from those used in the explanations in this manual. Refer to the Windows XP "Help and Support Center" to uninstall the software.

Click the [Start] button, and then click [Settings] - [Control Panel].

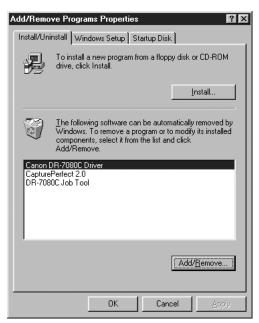


2 Double click on the [Add/Remove Programs] icon.



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.



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.

4.1	Documents	46
	Types of Documents	46
	Feeder Capacity	
4.2	Placing Documents onto the	
	Scanner	48
	Loading a Document into the Feeder	
	Positioning a Document on the	
	Flatbed (Platen Glass)	51
4.3	Document Feeding and Scanning	
	Scan Procedure	
4.4	Other Scanning Techniques	
	Using the Job Mode for Scanning	
	Using the Count Only Mode	
	Using Patch Code Sheets	



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 Duplex: 50 to 128 g/m²

Black-and-white/Color Documents Mixed

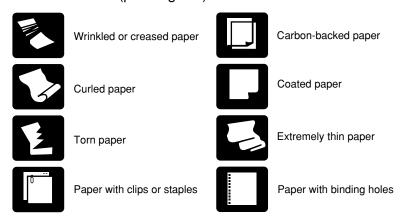
50 to 128 g/m² Color Documents

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.

- 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).



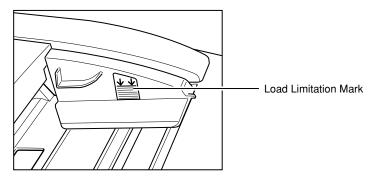


- Note that mixing documents of different thicknesses and sizes may cause a malfunction during feeding.
- Documents containing text or pictures within 5 mm of its edges or documents with a color background may cause erroneous skew detection or automatic size detection.

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).





Placing Documents onto the Scanner

This section describes how to load documents into the feeder and how to position a document page on the flatbed (platen glass) for scanning.

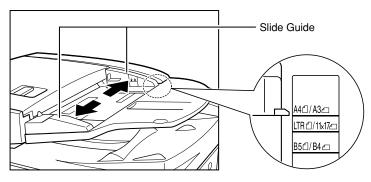


Handle documents with care. Improper handling of paper can cause paper cuts or other personal injury.

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.

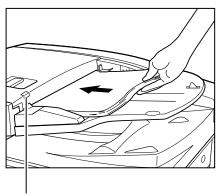




Use both hands to adjust both the left and right slide guides. Adjusting only one slide guide can lead to a malfunction.

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.

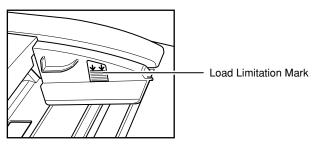
Insert the stack into the feeder as far as it will go, until the document set indicator lights.



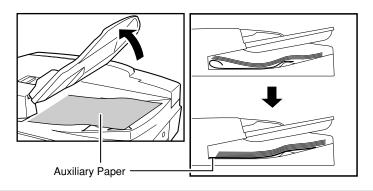
Document Set Indicator



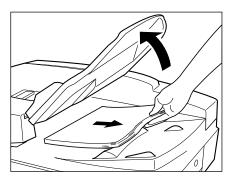
- Make sure the top of the document stack is not higher than the load limitation mark.
 Overloading the feeder can cause jamming.
- The feeder is designed to hold approximately 100 sheets of A4/LTR-size standard copy paper (80g/m²).



• 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.



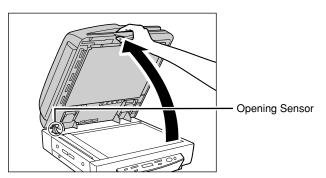


- Leaving a document in the document eject tray and scanning another document can cause jamming.
- Raise the document feeder tray only as much as you need to remove the ejected document pages. Trying to forcibly raise the document feeder tray can cause a malfunction.

Positioning a Document on the Flatbed (Platen Glass)

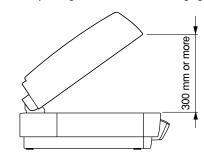
Use the following procedure to scan on the flatbed (platen glass) when scanning a book, thick document, very thin document, an OHP (Overhead Transparency) transparency, or any other document that cannot be scanned using the feeder.

Raise the feeder.



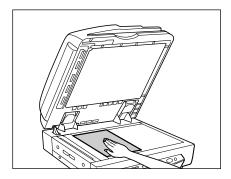


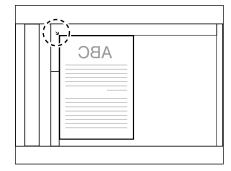
- Lower the feeder slowly, taking care to avoid pinching your fingers. Failure to do so might result in personal injury.
- When scanning on the flatbed (platen glass), raise the feeder at least 300 mm until the opening sensor unit is disengaged.



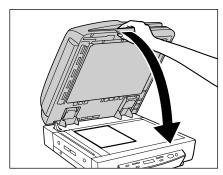
2 Place the document onto the flatbed (platen glass) with the scanning side facing downwards.

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).





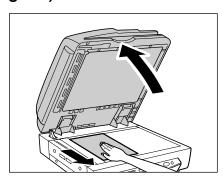
3 Slowly and carefully lower the feeder back down.





- 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.

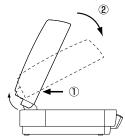
4 Raise the feeder and remove the document from the flatbed (platen glass).



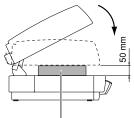


- Raise the feeder carefully and slowly, taking care to avoid letting the feeder fall over backwards.
- Leave the feeder raised when scanning thick documents like books, or operate the feeder as shown in the procedure below.
- 1. Raise the feeder.
- 2. While pressing on the bottom of the feeder ①, pull the feeder down and forward ②.



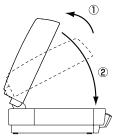


3. Set the thick document or book on the flatbed (platen glass) and hold the feeder lightly while scanning.



Book or Thick Document

 To return the feeder to its original position, raise it all the way ①, then close it carefully and slowly. ②





Document Feeding and Scanning

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.

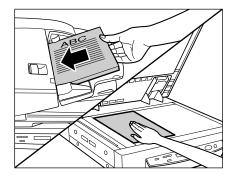
Automatic Feeding (See p. 57.)

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.
- 2 Place the document onto the scanner.





See "Placing Documents onto the Scanner," on page 48 for information about placing documents onto the scanner.

- From the application you are using, execute the required command to start scanning.
 - 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.

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.

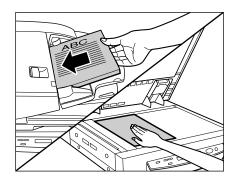


If you are using the feeder for scanning, be sure to remove ejected document pages from the document eject tray before scanning another document. Leaving a document in the document eject tray and scanning another document can cause a paper jam.

♦ 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.
- 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.

5 When scanning of the document is complete, the scanner 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.

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.

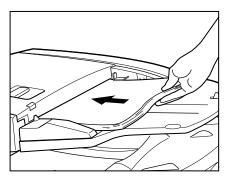
◆ Automatic Feeding

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.
- 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.)

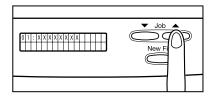
2 Use Job Registration Tool to register a job.
(See "How to Start the Job Registration Tool," on p. 41.)



See [Help] in the Job Registration Tool for information on how to register jobs with the Job Registration Tool.

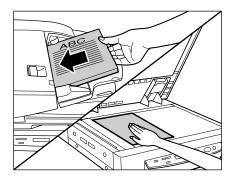
3 Press the Job [▲] key to enter the Job Mode.

This causes the job number screen to appear on the display panel.



4 Use the Job [▲] and [▼] 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.

The image file is forwarded in accordance with the selected job.

When scanning of the document is complete, press the [Stop] key to exit the Job Mode.

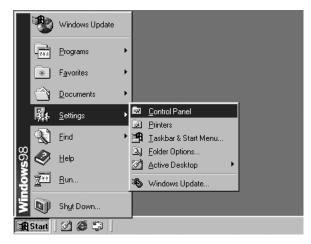


If you cannot get the Job Mode to operate correctly, see "Troubleshooting," on page 86.

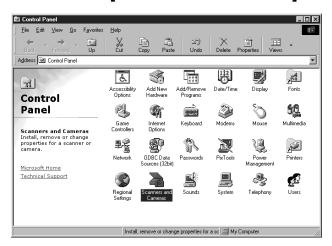
♦ Setting the Event Function

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].

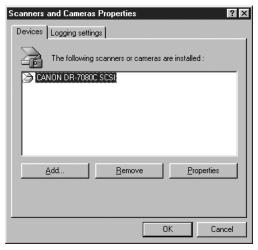


This displays the [Scanners and Cameras] dialog box.



The dialog box that appears differs according to what version of Windows is running on the computer.

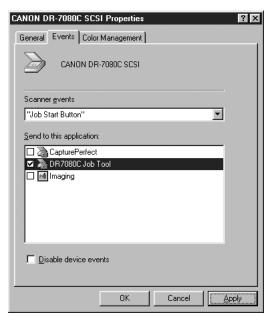
3 Select [Canon DR-7080C SCSI], and then click [Properties].



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].
- 7 Click the [Apply] button.



You cannot use the Job function if the [Disable device events] check box is checked.

- 8 Click the [OK] button.
- 9 Restart Windows.

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.

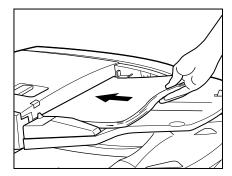
Use the user modes to enter the scanner's Count Only Mode.

(See "How to Set the User Modes," on p. 72.)

С	0	u	n	t	0	n	I	У	М	0	d	е	
									0	0	0	0	0

This causes the Start key lamp to light green.

2 Load the document into the feeder, and then press the [Start] key.



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

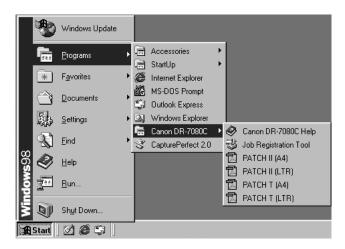
Patch code sheets are sheets of paper on which a special pattern is printed so that files can be separated without stopping the scanning operation. The scanner can recognize the pattern on these sheets, which allows files to be separated.



- 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.



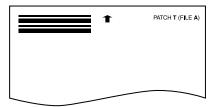


You need CapturePerfect or an application that can open PDF (portable document format) files.

◆ Types of Patch Code Patterns

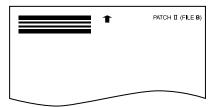
There are two patch code patterns as shown below. The result varies depending on the pattern.

• 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.

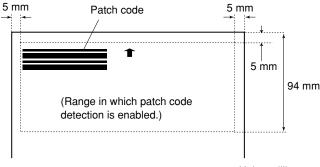
♦ How to Use Patch Code Sheets

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.



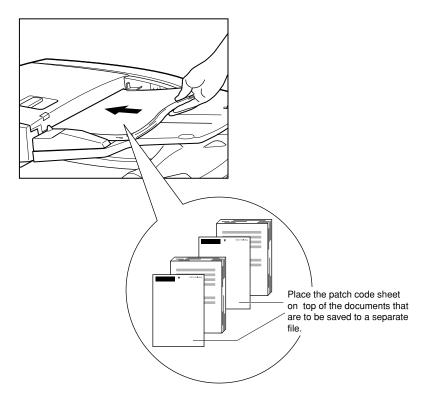
Patch code patterns are detected within the enabled range shown below. When you make a copy of the patch code sheet, adjust the position of the image so that it appears in the range in which detection is enabled.



Units: millimeters

- When copying the patch code sheets, use the same size paper and the same density as the original patch code sheet. If the copied sheet is not dense enough, or if it is too dense, the scanner may not be able to recognize it correctly.
- Be careful not to let the patch code sheet get dirty, particularly for the range in which patch code detection is enabled. Do not bend or wrinkle the patch code sheet. This could prevent the scanner from recognizing the sheet.
- When the patch code sheet is being scanned, if it is not dense enough, or if it is too dense, the scanner may not be able to recognize it correctly.

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.



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.

5.1	About the User Modes	70
	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	N			[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			[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	а	р	а	n	е	s	е		(=	ホ	ン	П	٠)
				0	Ν			[0	F	F]			

ON: Japanese

OFF: English (default)

Display Contrast Mode

D	i	s	р	ı	a	У		С	0	n	t	r	а	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		[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].

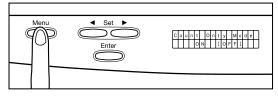


If you change the setting for the SCSI transfer speed, turn OFF the scanner, and then turn it ON.

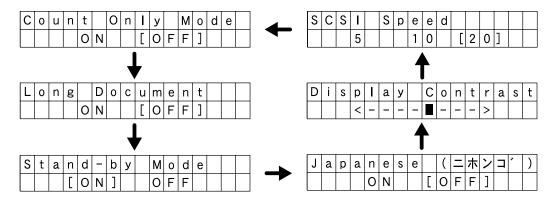
How to Set the User Modes

Use the following procedure to configure user mode settings.

Press the [Menu] key to display the user mode screens.



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.

6.1	When the Scanner Is Not	
	Recognized	. 74
	SCSI Connections	. 74
	USB Connections	. 76
6.2	Clearing Paper Jams	. 77
	Clearing a Paper Jam	
	Paper Jam Causes	
6.3	When the Scanned Image Is Not	
	Normal	. 82
6.4	Display Messages	. 83
	Error Messages	
	Scanner Status Messages	
6.5	Troubleshooting	



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 Windows Me>

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 NT 4.0 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 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 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.

Cause	Same SCSI ID is used for other SCSI devices.
Remedy	Check the SCSI ID of all connected SCSI devices, and make sure that the same SCSI ID is not set to two or more devices. Reset the SCSI 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.
Remedy	Turn OFF the computer. Then, turn ON the scanner, and then turn ON the computer. (See p. 31.)
Cause	The scanner's power cord is disconnected from the scanner or the AC power outlet.
Remedy	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	The scanner does not support the SCSI card.
Remedy	Replace with a SCSI card compatible with the driver application. (See p. 25.)

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 Remedy	The USB 2.0 interface card does not support the scanner. 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.

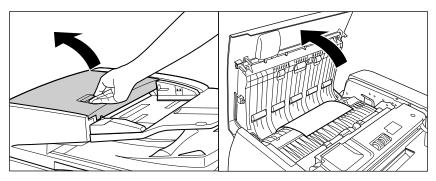
F	е	е	d	i	n	g	М	i	s	s		

Clearing a Paper Jam

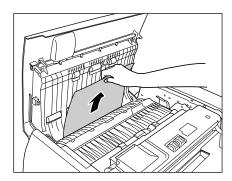


- Be careful when you clear a paper jam. You may be injured unexpectedly. For example, the paper edges may cut your fingers, or the document may be damaged.
- Remove all jammed sheets of paper. Paper scraps left inside the scanner may be drawn into the scanner again, causing another paper jam or malfunction.
- 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.

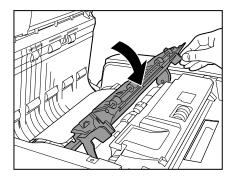
Operate the opening lever, and then slowly raise the cover until it stops.



3 Remove the jammed paper.



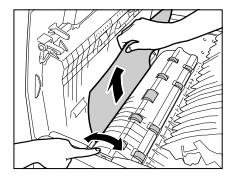
4 If the document is jammed under the feeder guide, grasp the tab inside the scanner to open the feeder guide.





If you are duplex scanning, the document may be jammed under the feeder guide.

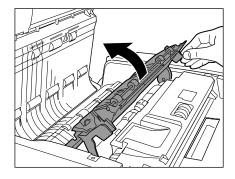
5 Rotate the dial on your side of the scanner to remove any paper jammed inside the feeder.





- 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.

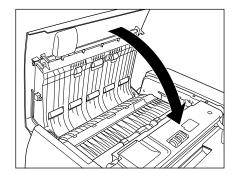
6 Close the feeder guide.





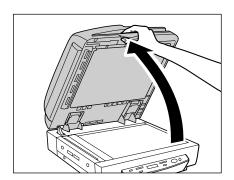
Take care to avoid pinching your fingers when closing the feeder guide.

7 Close the feeder cover.





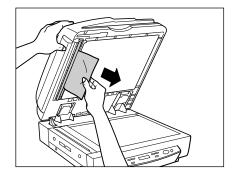
8 Raise the feeder.



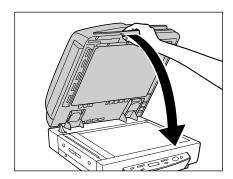


Open the feeder carefully and slowly, taking care to avoid letting the feeder fall over backwards.

9 Remove any paper jammed inside the feeder.



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 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.



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.

→ 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.



6.4 Display Messages

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** Cover O|p|e|nThe feeder cover is open. Cause Close the feeder cover. Remedy Display C|o|v|e|r O|p|e|n0 2 Cause The feeder is raised. Remedy Lower the feeder back down. Display F|e|e|d|i|n|g M| i | s s Cause Jam Check the document and try again. If this error continues to appear, Remedy scan the document from the flatbed (platen glass). Display J a m x | x | x | xCause 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 | . Scan to Mail send error occurs when sending images using Cause the Job Registration Tool. Check the configuration of the Job Registration Tool settings and try Remedy again.

Display	D e t e c t
Cause	You are attempting to scan a document that contains mixed page sizes while the Different 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	Error Exxxxx
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

The following messages indicate the current status of the scanner:

The following messages indicate the current status of the scaliner.						
Display Status	P I e a s e w a i t The scanner is performing some process. Please wait.					
Display						
Status	The scanner is in the Ready Mode. The scanner will go into the Stand-by Mode if you do not perform any operation for approximately 10 minutes.					
Display	Stand-by Mode					
Status	The scanner is in the Stand-by Mode. A signal from the computer or an operation panel key operation will recover the scanner to Ready Mode.					
Display	C o u n t O n I y M o d e 0 0 0 0 0 0 0					
Status	The scanner is in the Count Only Mode. (See "Using the Count Only Mode," on p. 63.)					
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.)					

6.5 Troubleshooting

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.

7.1	Changing the Stamp Cartridge						
7.2	Daily Cleaning	92					
	Cleaning the Main Unit						
	Cleaning the Flatbed (Platen Glass) and						
	Pressure Board (Black)	93					
	Cleaning the Feeder	94					
	Cleaning the Power Plug	98					

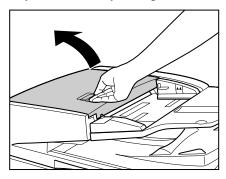


Changing the Stamp Cartridge

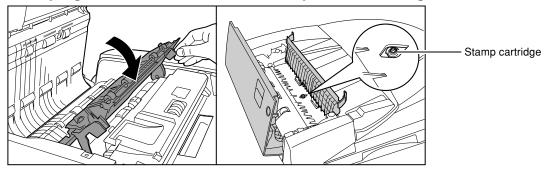
When using the optional stamp unit (see p. 21) to stamp scanned documents, you should use the following procedure to replace the stamp cartridge whenever the stamp mark becomes smudged or faint. Contact your sales reprentative or service representative to purchase a new stamp cartridge.

1 Open the feeder cover.

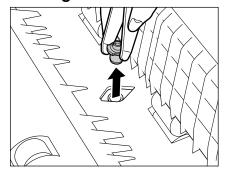
Operate the opening lever, and then slowly raise the cover until it stops.



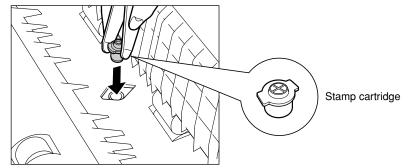
2 Grasping the tab inside the scanner, open the feeder guide.



3 Use a pair of tweezers or some similar tool to remove the old stamp cartridge.



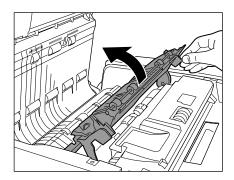
4 Insert a new stamp cartridge.





- 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.

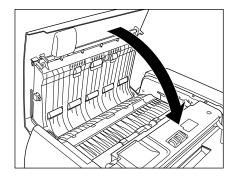
5 Close the feeder guide.





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.

91



To maintain high-quality scanning, you should periodically clean the following:

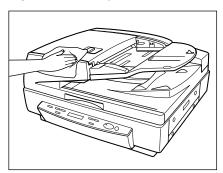
- Main unit
- Flatbed (Platen glass)
- Pressure Board (Black)
- Feeder



- 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

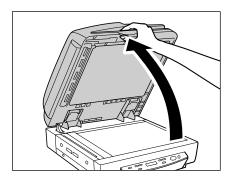
Wipe the scanner with a firmly wrung cloth moistened slightly with water or mild detergent. Then wipe off with a clean, dry cloth.



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.

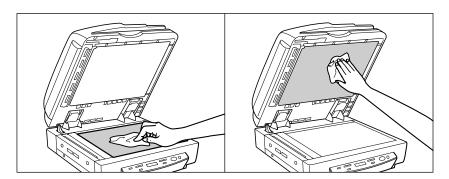
Raise the feeder.



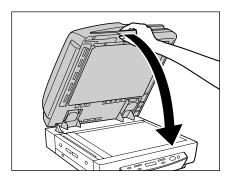


Open the feeder carefully and slowly, taking care to avoid letting the feeder fall over backwards.

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.



3 Slowly and carefully lower the feeder back down.





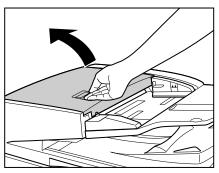
Lower the feeder slowly, taking care to avoid pinching your fingers. Failure to do so might result in personal injury.

Cleaning the Feeder

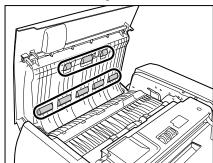
Without periodical cleaning, a problem may be caused on the scanned image or the document may become soiled. Clean the feeder periodically.

1 Open the feeder cover.

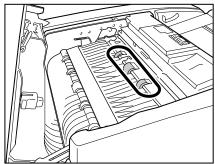
Operate the opening lever, and then slowly raise the cover until it stops.



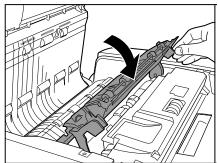
Wipe the eight rollers inside the feeder cover with a cloth moistened with plain water and thoroughly wrung out. Next, wipe the rollers dry with a soft, dry cloth.



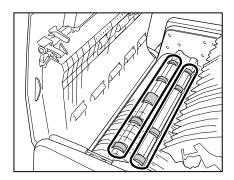
Wipe the three rollers on the feeder guide with a cloth moistened with plain water and thoroughly wrung out. Next, wipe the rollers dry with a soft, dry cloth.



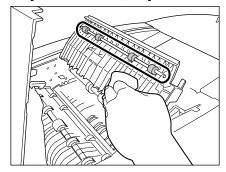
4 Grasping the tab inside the scanner, open the feeder guide.



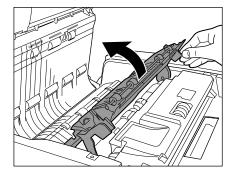
Wipe the nine rollers with a cloth moistened with plain water and thoroughly wrung out. Next, wipe the rollers dry with a soft, dry cloth.



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.



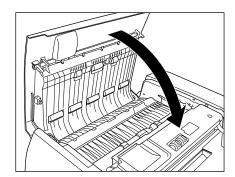
7 Close the feeder guide.





Take care to avoid pinching your fingers when closing the feeder guide.

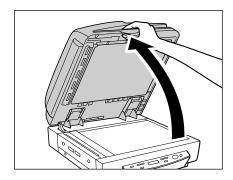
O Close the feeder cover.





Take care to avoid pinching your fingers when closing the feeder cover.

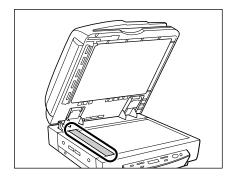
9 Raise the feeder.





Open the feeder carefully and slowly, taking care to avoid letting the feeder fall over backwards.

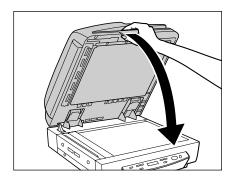
Wipe the scanning glass (narrow strip of glass) to the left of the flatbed (platen glass) with a cloth moistened with plain water and thoroughly wrung out. Next, wipe the glass dry with a soft, dry cloth.



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.

Specifications	100
Specifications for the Scanner	100
Options	101
Consumables	101
Exterior Dimensions	102
Index	103

Specifications

Specifications for the Scanner

Type Desktop ADF/flatbed scanner

Document Size 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 • Duplex: 50 to 128 g/m²

Black-and-white/Color Documents Mixed

50 to 128 g/m²

Color Documents

64 to 128 g/m²

Document FeedingFeeder/FlatbedScanning Method3-line CCDLight SourceXenon lamp

Scanning Side Simplex (automatic inversion of document for duplex scanning)

Scanning Mode Black-and-white, advanced text enhanced, error diffusion,

256-level grayscale, 24-bit color

Scanning Resolution 600 x 600 dpi/400 x 400 dpi/300 x 300 dpi/ (primary scan lines x 240 x 240 dpi/200 x 200 dpi/150 x 150 dpi/

secondary scan lines) 100 x 100 dpi

256-level grayscale

Scanning Speed (portrait LTR/A4-size document):

Black-and-White Simplex 300 x 300 dpi 70 ppm
Duplex 300 x 300 dpi 36 ipm

Simplex 300 x 300 dpi 68 ppm Duplex 300 x 300 dpi 36 ipm

24-bit color Simplex 150 x 150 dpi 70 ppm

Duplex 150 x 150 dpi 36 ipm

Automatic Feed Max. 100 sheets (80g/m²) or stack 13 mm or less

Interface SCSI-III/Hi-Speed USB 2.0

Other Functions Automatic paper size detection, Dropout color, Count Only

Mode, Job function

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: 0.74 A maximum

Ready: Under 0.23 A

Noise Less than 78 dB

Operating Environment Temperature: 15°C to 30°C (59°F to 86°F)

Humidity: 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.)

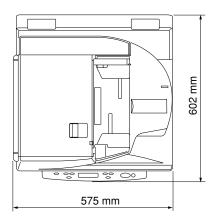
Consumables

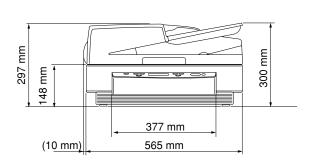
Stamp Cartridge For replenishing the stamp unit.

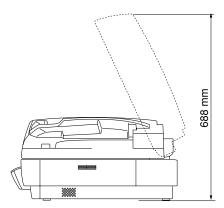
 For details about options and consumables, contact your sales representative or your service representative.

Exterior Dimensions

Units: millimeters







Index

- A -	- F -	
Air vents 18	Features of DR-7080C	. 12
Automatic feeding 57	Feeder	
Auxiliary paper49	-Document eject tray	. 16
, , ,	-Document feeder tray	
- B -	-Document set indicator	
Batch separation 59	-Feeder cover	
Before getting started 14	-Opening lever	
	-Slide guide	
- C -	Ferrite Core	
CapturePerfect	File separation	
-How to start CapturePerfect 40	Flatbed 17	
-How to start the Job Registration	-Opening sensor	
Tool41	-Platen glass	
-Installation37	-Power switch	
Carrying 9	-Pressure board (Black)	
Cleaning		
-Feeder90	-1-	
-Main unit 92	Installation location	7
-Platen glass 93	ISIS/TWAIN drivers	
-Power plug 98	-How to display the ISIS/	. 00
-Pressure board (Black) 93	TWAIN driver Help file	39
-Rollers 95	-Installation	
Connecting to a computer	motanation	. 07
Consumables 101	- J -	
00110411140100 101	Job function	20
- D -	Job key	
Daily cleaning	Job Mode	
Desktop ADF/flatbed scanner 100	Job Registration Tool	
DIP switch	Togistration foor	. 00
Documents	- L -	
-Capacity 47	Long Document Mode	70
-Placing 48	Load limitation mark	
-Type 46	Load IIIIIIalion mark	,
Document eject tray 14, 49	- M -	
Document set indicator 49	Messages	83
Document feeder tray	141000ag00	. 00
Display Contrast Mode 71	- N -	
Display Contrast Wode 71	New File key	10
- E -	New I no key	. 10
Enter key 71	- O -	
Error messages 83	Operating environment	. 24
Event function 60	Operation panel 16	
Exterior dimensions 102	-Enter key	
	•	-

-Job keys	SCSI connectors	26 72 14 48 36
- P -	-Installation3	
Panel feeding 56	-Uninstallation	
Paper jams	Specifications 10	
-Clearing a paper jam 77	Stamp cartridge	
-Paper jam causes 81	Stamp unit	
Part names	Standard feeding	
Patch code patterns	Stand-by Mode	
Patch code sheets	Start key	
-How to use patch code sheets 66	Stop key1	19
PATCH II 65 PATCH T 65	- T -	
Power cord	Terminator 2	27
Power cord connector 18	Transportation screw	
Power supply 8	Troubleshooting 8	
Tower supply	Turning OFF the power	
- R -	Turning ON the power	
Rear	Taning on the police in the second	•
-Air vents 18	- U -	
	_	14
-Air vents	- U - Unpacking 1 USB 2.0 interface cable 3	
-DIP switch 18	Unpacking1	30
-DIP switch	Unpacking 1 USB 2.0 interface cable 3	30
-DIP switch	Unpacking	30 29
-DIP switch	Unpacking	30 29 25 24
-DIP switch	Unpacking	30 29 25 24 69
-DIP switch	Unpacking	30 29 25 24 69 70

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	
		☐ 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
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Job No.	Job Title	Function	
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