

**ScanSnap S1300i**  
**Image Scanner**  
**Maintenance Manual**



							Name	<b>ScanSnap S1300i Maintenance Manual</b>	
							Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	Refer to P2	P0212A01768			
Rev.	Date	Desig.	Check	Appr.	Description		PFU LIMITED		Page
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu			1 / 115

Revision Record				
Edition	Date published	Revised contents		
		Pages	Contents	
Draft	February 14, 2012	Draft version released.		
01	March 15, 2012	First version released		
02	October 29, 2012	P8,11,24	1.1.1,1.1.2,3.1.2 Changed	P0212A01768

The contents of this manual are subject to change without prior notice.

© PFU LIMITED 2012

						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768	Refer to P2		
Rev.	Date	Desig.	Check	Appr.	Description		PFU LIMITED	Page 2 / 115
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu		

## Preface

This manual provides the technical information such as maintenance, troubleshooting procedure and parts replacement procedure for Field Engineers on the ScanSnap S1300i Image Scanner.

This manual is not responsible if used for anything other than maintenance.

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

Item	Manuals	P/N	Remarks
1	ScanSnap S1300i Getting Started	P3PC-3602-xxEN	
2	ScanSnap S1300i Operator's Guide	P3PC-3662-xxENZ0	
3	S1300i Illustrated Parts Catalog	P4PA03643-B00X/6	

\* "xx" shows the revision number of the manuals.

## Convention

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

### WARNING

This indication alerts operators to an operation that, if not strictly observed, may result in severe injury or death.

### CAUTION

This indication alerts operators to an operation that, if not strictly observed, may result in safety hazards to personnel or damage to equipment.

### NOTICE

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

## General note:

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

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

						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768	Refer to P2		
Rev.	Date	Desig.	Check	Appr.	Description		PFU LIMITED	Page 3 / 115
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu		

# Trademarks

Microsoft, Windows, Windows Vista, Excel, PowerPoint, Outlook, SharePoint, and Entourage are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries. Word is the product of Microsoft Corporation in the United States.

Apple, the Apple logo, Mac, Mac OS, and iPhoto are trademarks of Apple Inc.

Adobe, the Adobe logo, Acrobat, and Adobe Reader are either registered trademarks or trade names of Adobe Systems Incorporated in the United States and/or other countries.

Intel, Pentium, and Intel Core are registered trademarks or trademarks of Intel Corporation in the United States and other countries.

Cardiris is a trademark of I.R.I.S.

ABBYY™ FineReader™ Engine ©2011 ABBYY. OCR by ABBYY

ABBYY and FineReader are trademarks of ABBYY.

Evernote is a registered trademark or trademark of Evernote Corporation.

ScanSnap, the ScanSnap logo, CardMinder, and Rack2-Filer are registered trademarks or trademarks of PFU LIMITED in Japan.

Other company names and product names are the registered trademarks or trademarks of the respective companies.

## How Trademarks are Indicated in This Manual

The following abbreviations are used in this manual:

Windows 7:	Windows® 7 Starter operating system, English Version Windows® 7 Home Premium operating system, English Version Windows® 7 Professional operating system, English Version Windows® 7 Enterprise operating system, English Version Windows® 7 Ultimate operating system, English Version
Windows Vista:	Windows Vista® Home Basic operating system, English Version Windows Vista® Home Premium operating system, English Version Windows Vista® Business operating system, English Version Windows Vista® Enterprise operating system, English Version Windows Vista® Ultimate operating system, English Version
Windows XP:	Windows® XP Professional operating system, English Version Windows® XP Home Edition operating system, English Version
Windows:	Windows 7, Windows Vista, and Windows XP
Mac OS:	Mac OS X v10.7, Mac OS X v10.6, and Mac OS X v10.5
Adobe Acrobat:	Adobe® Acrobat®
Adobe Reader:	Adobe® Acrobat®
ScanSnap:	Color Image Scanner ScanSnap S1300i

						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768	Refer to P2		
Rev.	Date	Desig.	Check	Appr.	Description		PFU LIMITED	Page 4 / 115
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu		

# Contents

<b>Chapter 1 Overview .....</b>	<b>8</b>
1.1 Scanner Overview .....	8
1.1.1 Features .....	8
1.1.2 Scanner Specifications/Environmental Specifications .....	9
1.1.3 Appearance/Part Names .....	13
1.1.4 Document Specifications .....	15
<b>Chapter 2 Scanner Operation .....</b>	<b>17</b>
2.1 Scanner Operation .....	17
2.1.1 ADF Unit .....	17
2.1.2 Reading Station .....	19
2.1.3 Controller .....	20
2.1.4 Scanner Block Diagram .....	21
2.1.5 Circuit Block Diagram .....	22
<b>Chapter 3 Installation .....</b>	<b>23</b>
3.1 Unpacking .....	23
3.1.1 Unpacking the Scanner .....	23
3.1.2 Checking Appearance and Accessories .....	24
3.2 Installing the Scanner .....	25
3.2.1 For Safety Installation .....	25
3.2.2 Software .....	26
3.2.3 Installing the Software .....	27
3.2.4 Installation .....	29
3.2.5 Scan Test .....	31
<b>Chapter 4 Maintenance Parts .....</b>	<b>32</b>
4.1 Maintenance Parts List .....	32
4.1.1 Items to Test After Maintenance Part Replacement .....	33
4.2 Maintenance Parts Specification/Appearance .....	34
4.2.1 Revolve Unit .....	34
4.2.2 CIS Unit B (for backside scanning) .....	34
4.2.3 Joint PCA .....	35
4.2.4 Top Cover .....	35
4.2.5 Front Cover .....	35
4.2.6 Fixed Unit .....	36
4.2.7 CIS Unit F (for front side scanning) .....	36
4.2.8 OP Panel .....	37
4.2.9 Chuter SW Cable .....	37
4.2.10 Motor .....	37
4.2.11 HK Ring .....	38
4.2.12 Guide P ASSY .....	38
4.2.13 Pick Shaft Unit .....	38
4.2.14 CT PCA .....	39
4.2.15 Base Cover ASSY .....	39
4.2.16 Lid ASSY .....	39
4.2.17 Guide A ASSY .....	40
4.2.18 Chuter ASSY .....	40
4.2.19 Side Cover R ASSY .....	41
4.2.20 Side Cover L .....	41
4.2.21 AC Adapter .....	41
4.2.22 AC Cables .....	42
4.2.23 USB Cable P .....	42

						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768	Refarto P2		
Rev.	Date	Desig.	Check	Appr.	Description		PFU LIMITED	Page 5 / 115
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu		

4.2.24 USB Cable .....	42
4.2.25 Test Chart No. 42 .....	43
4.2.26 Test Chart (W) .....	43
<b>Chapter 5 Troubleshooting.....</b>	<b>44</b>
5.1 Temporary Errors and Alarms .....	44
5.1.1 Temporary Errors .....	44
5.1.2 Alarms .....	44
5.2 (Reserved).....	45
5.3 Troubleshooting .....	46
5.3.1 Scanner Does not Turn ON (No LED blinking on the operator Panel) .....	47
5.3.2 Scanning Does not Start.....	48
5.3.3 Scanned Image is Distorted .....	49
5.3.4 Too Much Jitter on Scanned Image when Scanning from the ADF .....	50
5.3.5 Offset or Image Size is incorrect .....	51
5.3.6 Vertical Streaks Appear in Scanned Image .....	52
5.3.7 Frequent Document Jam Error.....	52
5.3.8 Chronic “No Paper on the Paper Chute” .....	53
5.3.9 Chronic “ADF Cover Open”.....	53
5.3.10 Frequent Multi Feed .....	54
5.3.11 Optical Alarm (ADF Front Side or ADF Back Side).....	54
5.3.12 EEPROM Alarm.....	55
5.3.13 Image Memory Alarm / RAM Alarm .....	55
<b>Chapter 6 Maintenance Procedure.....</b>	<b>56</b>
6.1 For Safety Operation.....	56
6.2 Periodic Maintenance .....	57
6.3 Cleaning Maintenance Parts .....	57
6.4 Maintenance Tool .....	58
6.4.1 Maintenance Tool List.....	58
6.4.2 Test Paper List.....	58
6.5 Non-disassembly Parts.....	58
6.6 Revolve Unit.....	59
6.6.1 Revolve Unit.....	59
6.6.2 CIS Unit B (for backside scanning) .....	61
6.6.3 Junction PCA.....	62
6.6.4 Top Cover .....	64
6.6.5 Front Cover.....	65
6.7 Fixed Unit .....	66
6.7.1 Fixed Unit.....	66
6.7.2 CIS Unit F (for front side scanning) .....	67
6.7.3 OP Panel .....	68
6.7.4 Chuter SW Cable.....	69
6.7.5 Motor .....	71
6.7.6 HK Ring.....	72
6.7.7 Guide P ASSY.....	74
6.7.8 Pick Shaft Unit.....	74
6.8 CT PCA .....	75
6.9 Outer Covers .....	77
6.9.1 Base Cover ASSY .....	77
6.9.2 Lid ASSY .....	78
6.9.3 Guide A ASSY .....	79
6.9.4 Chuter ASSY.....	80
6.9.5 Side Cover R ASSY .....	81
6.9.6 Side Cover L.....	81
<b>Chapter 7 Test Program.....</b>	<b>82</b>

						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768	Refarto P2		
Rev.	Date	Desig.	Check	Appr.	Description		PFU LIMITED	Page 6 / 115
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu		

7.1 System Environment of Test Program.....	82
7.2 Work Flow of Unit Inspection and Unit Repair .....	83
7.3 How to Save EEPROM Data.....	84
7.4 How to Restore the EEPROM Data.....	86
7.5 How to Refer to the EEPROM Data.....	88
7.6 How to Adjust and Test the Image Quality .....	91
<b>Chapter 8 Operation and Daily Maintenance .....</b>	<b>99</b>
8.1 Basic Operation .....	99
8.1.1 Turning the Scanner ON/OFF .....	99
8.1.2 Loading Documents.....	100
8.1.3 Scanning Documents.....	102
8.2 Daily Care.....	103
8.2.1 Cleaning Parts and Cleaning Frequency.....	103
8.2.2 Cleaning Materials.....	103
8.2.3 Cleaning the Scanner Exterior.....	104
8.2.4 Cleaning the Inside of the Scanner .....	104
8.3 Consumables and Replacement .....	107
8.3.1 Consumables .....	107
8.3.2 Checking/Resetting the Consumable Counter.....	108
8.3.3 Pad ASSY Replacement.....	111
8.3.4 Pick Roller Replacement.....	113

						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768	Refar to P2		
Rev.	Date	Desig.	Check	Appr.	Description		PFU LIMITED	Page 7 / 115
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu		

# Chapter 1 Overview

## 1.1 Scanner Overview

### 1.1.1 Features

The main features of the ScanSnap S1300i are as follows:

(1) Improved to allow 1.5 times faster scanning

The scanning speed has been improved by 1.5 times to allow 12 sheets/minute scanning (A4 Color, 150 dpi).

The scanning speed is increased by utilizing automating and intelligent functions.

(2) Expanded to allow greater linkage with smartphones and tablet devices

The number of smartphones and tablet devices that can be linked with “ScanSnap Connect Application” has been expanded.

Save directly to PDF by pressing the “Scan” button, without having to perform the operation via the connected computer.

(3) Expanded to allow more use of cloud services

The “ScanSnap Folder” function has been introduced, which allows easy linking with cloud services (Windows only).

Cloud services are added on the quick menu.



**Rev.02** <Model List>

No.	Name	Part No.	Model Name	Device Number	Remarks
1	ScanSnap S1300i	FI-S1300A	S1300i	PA03643-B001	For Europe
2	ScanSnap S1300i	FI-S1300A	S1300i	PA03643-B002	For North America
3	ScanSnap S1300i	FI-S1300A	S1300i	PA03643-B005	For FCPA
4	ScanSnap S1300i	FI-S1300A	S1300i	PA03643-B007	For FHK
5	ScanSnap S1300i	FI-S1300A	S1300i	PA03643-B205	For FCPA
6	<del>ScanSnap S1300i Raek2</del> ScanSnap S1300i Deluxe	<del>FI-S1300A-SR</del> FI-S1300A-D	S1300i	PA03643-B011	For Europe
7	<del>ScanSnap S1300i Raek2</del> ScanSnap S1300i Deluxe	<del>FI-S1300A-SR</del> FI-S1300A-D	S1300i	PA03643-B012	For North America
8	<del>ScanSnap S1300i Raek2</del> ScanSnap S1300i Deluxe	<del>FI-S1300A-SR</del> FI-S1300A-D	S1300i	PA03643-B015	For FCPA
9	<del>ScanSnap S1300i Raek2</del> ScanSnap S1300i Deluxe	<del>FI-S1300A-SR</del> FI-S1300A-D	S1300i	PA03643-B017	For FHK

						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
Rev.	Date	Desig.	Check	Appr.	Description	PFU LIMITED		
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768 Refarto P2	Page	8 / 115	
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu		

## 1.1.2 Scanner Specifications/Environmental Specifications

&lt;Scanner Specifications&gt;

No.	Items	Specifications			Remarks
1	Scanning method	CIS: RGB 3 colors LED + monochrome CMOS			
2	Operating method	Sheet Feeder (ADF) Duplex scan, straight path			
3	Scan mode	Automatic color-monochrome recognition (default) / color / monochrome (black & white)			Scanner: Color Scanning
4	Light source	CIS: Cellfox lens same magnification optical system + RGB 3 colors LED + monochrome CMOS sensor			Total 2 per unit
5	Optical resolution	600 dpi			
6	Basic scanning density	600 dpi x 600dpi (main scanning x sub-scanning)			
7	Output resolution	Monochrome	300, 400, 600, 1200 dpi * Default: 300 dpi		[Note] Monochrome: binary, same magnification in driver Gray: gray in driver
		Color/Gray	150, 200, 300, 600 dpi * Default: 150 dpi		
8	Output data	Monochrome	Binary		[Note] Monochrome/gray: binary, gray in driver
		Gray	8 bit		
		Color	24 bit		
9	Scanning gradation	256 gradations (internally 65536 gradations)			16 bit scanning
10	Document size		Width	Length	[Reference] Overseas business card size: 50.8 mm x 88.9 mm (2.5 inch x 3.5 inch) Legal: 215.6 mm x 355.6 mm (8.5 inch x 14 inch)
		Minimum	50.8 mm (2 in.)	50.8 mm (2 in.)	
		Maximum	216 mm (8.5 in.)	360.0 mm (14.2 in.)	
		Long page scanning (300 dpi or less)	216 mm (8.5 in.)	863 mm (33.9 in.)	
	Automatic size detection (non-standard size supported)				
11	ADF capacity	10 sheets @ 80g/m <sup>2</sup> or 20lb. (Loading height: 1 mm)			Paper guide width: 220 mm
12	Paper weight	55 to 90 kg/ream (64 to 104.7 g/m <sup>2</sup> )			
13	Sheet setting	Square set (Bottom entry)			Face Down (Default) Face Up (Windows only) (In Windows, switchable by driver)

						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768	Refarto P2		
Rev.	Date	Desig.	Check	Appr.	Description		PFU LIMITED	Page 9 / 115
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu		

No.	Items	Specifications		Remarks		
14	<S1300i> Scanning speed with USB 2.0 connector (transfer time excluded)	Scan mode/Resolution		Process speed	A4 Portrait	
		AC adapter	Auto	Color/Gray (300dpi)		6 sheets / min.
				B/W (equivalent to 600 dpi)		6 sheets / min.
			Normal (Default)	Color/Gray (150 pdi)		12 sheets / min.
				B/W (equivalent to 300 dpi)		12 sheets / min.
			Better	Color/Gray (200 dpi)		9 sheets / min.
				B/W (equivalent to 400 dpi)		9 sheets / min.
		Best	Color/Gray (300 dpi)	6 sheets / min.		
			B/W (equivalent to 600 dpi)	6 sheets / min.		
		Excellent	Color/Gray (600 dpi)	1 sheet / min.		
			B/W (equivalent to 1200 dpi)	1 sheet / min.		
		Bus power	Auto	Color/Gray (300dpi)		2 sheets / min.
				B/W (equivalent to 600 dpi)		2 sheets / min.
			Normal (Default)	Color/Gray (150 pdi)		4 sheets / min.
				B/W (equivalent to 300 dpi)		4 sheets / min.
			Better	Color/Gray (200 dpi)		3 sheets / min.
				B/W (equivalent to 400 dpi)		3 sheets / min.
			Best	Color/Gray (300 dpi)		2 sheets / min.
B/W (equivalent to 600 dpi)	2 sheets / min.					
Excellent	Color/Gray (600 dpi)		1 sheet / min.			
	B/W (equivalent to 1200 dpi)		1 sheet / min.			
15	Background color	White		Not switchable		
16	Stacker	N/A				
17	Interface	USB 1.1/2.0 (USB Mini-B Type x 1 (Rear side))		USB 1.1 processing speed is not regulated		
18	File format	PDF, High Compression PDF (Windows only), JPEG (Color/Gray mode only: processed by driver)		Scanner output is Raw Data only		

						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768	Refarto P2		
Rev.	Date	Desig.	Check	Appr.	Description		PFU LIMITED	Page 10 / 115
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu		

No.	Items	Specifications	Remarks		
19	Image processing	Deskew, Auto-cropping, Auto orientation, Blank page deletion Monochrome/color recognition	According to driver		
20	Button	"Scan" button only			
21	Input power	AC Adapter: AC100 V to 240 V, 50/60 Hz USB Bus Power: 5 V / 1 A (0.5 A x 2 ports)	Input automatic switch USB x 2 ports required		
22	Energy conservation	ENERGY STAR standard compliant (In standby, automatically switches to power saving mode)			
23	Scan start time	AC adapter	Standby ~ Start-up	3 seconds or less	
			Chute opened	6 seconds or less	
		USB Bus power	Standby ~ Start-up	5 seconds or less	
			Chute opened	8 seconds or less	
24	Multifeed detection	Detection by length (with Top sensor)	S1300i		
25	Bundled software	<p>&lt;FI-S1300A&gt;/&lt;FI-S1300A-D&gt;</p> <ul style="list-style-type: none"> <li>• ScanSnap Manager (Win)</li> <li>• ScanSnap Organizer (Win)</li> <li>• CardMinder (Win)</li> <li>• ABBYY FineReader for ScanSnap (Win)</li> <li>• Evernote for Windows (Win)</li> <li>• Scan to Microsoft Sharepoint (Win)</li> <li>• ScanSnap Manager (Mac)</li> <li>• Cardiris (Mac)</li> <li>• Evernote for Mac (Mac)</li> <li>• Raku2 Library Smart with Magic Desktop (Win)&lt;FI-S1300A-D&gt; only</li> </ul>			
26	Option	Soft case	Same as soft case for S300		
27	Image memory	16 MB (8M x 16 bit)	Cannot be expanded		

Rev.02

						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768	Refer to P2		
Rev.	Date	Desig.	Check	Appr.	Description		PFU LIMITED	Page 11 / 115
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu		

## &lt;Scanner Specifications&gt;

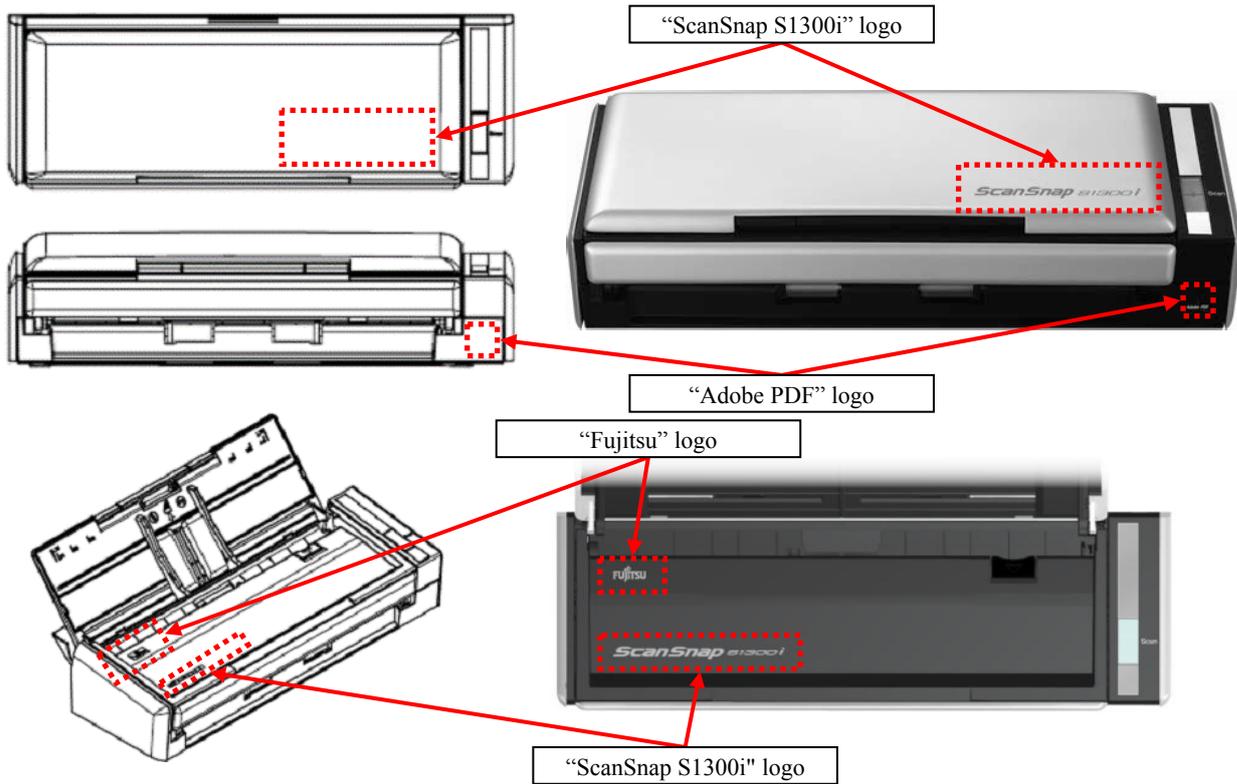
No.	Items		Specifications	Remarks	
1	Outer dimensions	Height	77 mm (3.1 in.)		
		Width	284 mm (11.2 in.)		
		Depth	99 mm (3.9 in.)		
2	Weight		1.4 kg or less (approx. 3.09 lb)	Not incl. AC Adaptor	
3	Input power		Voltage AC	100 to 240 V ±10%	Input voltage to AC adaptor
			Frequency	50/60 Hz	
3	Input power		Voltage DC (USB BUS POWER)	5 V + 0.25 V / - 0.5 V	Supply voltage to USB or DC jack
				1 A or less	
4	Power consumption (W)		During operation	9 W or less (using AC adaptor)	Power conservation mode
			During sleep	2.6 W or less (using AC adaptor)	
			During non-operation	Less than 0.5 W (When power is off)	
5	Heat value (Kcal/Hr)		During operation	7.74 Kcal/Hr or less	Power conservation mode
			During sleep	2.24 Kcal/Hr or less	
			During non-operation	0.43 Kcal/Hr or less	
6	Noise		During operation	Sound pressure: 50 db or less Sound power levels: 6.2B (A) or less (For ZN211-002)	ISO9296 compliant as "Office I installation, peripheral device II" (excluding operator position)
7	Ambient temperature (°C)		During operation	5 to 35	Temperature gradient (no condensation): 15°C/hr or less
			During standby	- 20 to 60	
			During storage/transportation	- 20 to 60	
8	Ambient humidity (% RH)		During operation	20 to 80	Humidity gradient (no condensation): 30%/hr or less
			During standby	8 to 95	
			During storage/transportation	8 to 95	
9	Altitude		During operation	0 to 3,100 m	
			During non-operation	0 to 12,000 m	

						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768	Refarto P2		
Rev.	Date	Desig.	Check	Appr.	Description		PFU LIMITED	Page 12 / 115
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu		

1.1.3 Appearance/Part Names

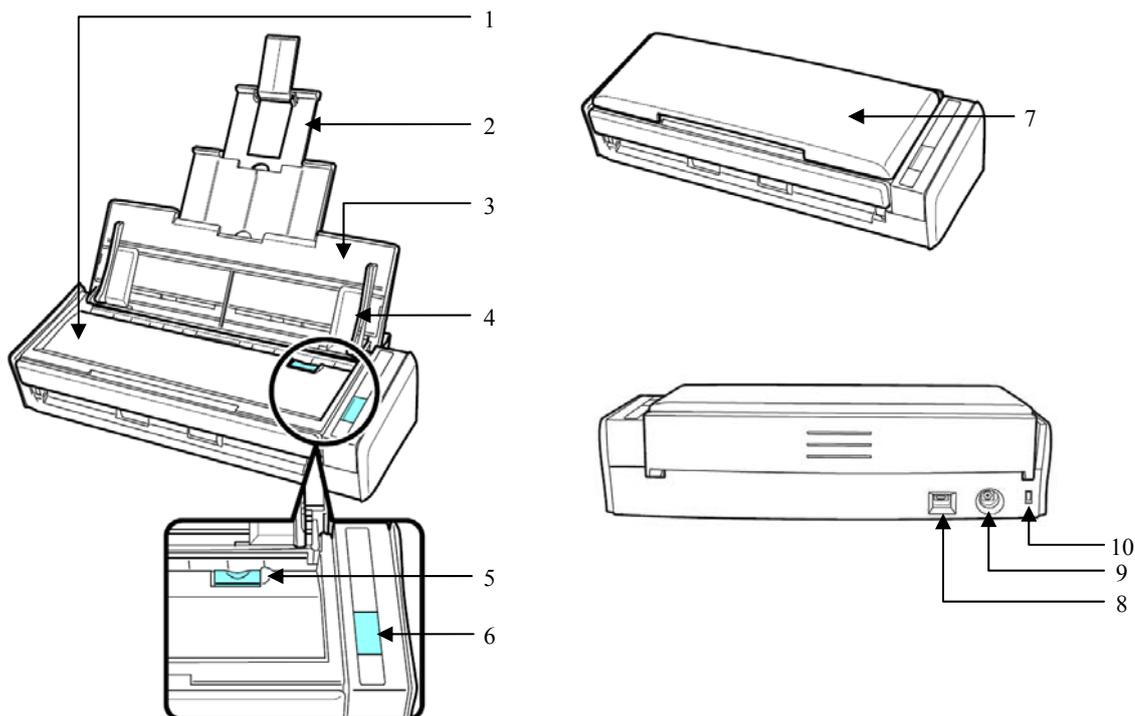
<Appearance>

- ScanSnap S1300i



						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768	Referto P2		
Rev.	Date	Desig.	Check	Appr.	Description		PFU LIMITED	Page 13 / 115
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu		

<Part Names>



No.	Part Name	Function
1	ADF top section (Automatic Document Feeder)	Open to remove jammed documents, replace the pad ASSY and the pick roller, or clean the inside of the scanner.
2	Extension	Pull out when scanning long documents.
3	Cover (ADF paper chute)	Open to use the scanner. Adjust the side guide and extension to match the size of the document.
4	Side guide	Adjust to the width of documents to prevent them from getting skewed.
5	ADF release tab	Pull this tab to open the ADF top section.
6	[Scan] button	Press this button to start scanning the loaded document.
	Indicator	Indicates the status of the scanner as follows: Blue (lit) : Ready Blue (blinking) : Scanning Orange (blinking) : Error
7	ADF paper chute (cover)	Open to use the scanner. Opening the ADF paper chute (cover) turns on the scanner.
8	USB connector	Connect with the USB cable.
9	Power connector	Connect with the power cable or USB bus power cable.
10	Security cable slot	Used to connect an anti-theft security cable (commercially available).

						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768 Referto P2			
Rev.	Date	Desig.	Check	Appr.	Description	PFU LIMITED	Page	14 / 115
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by		Iwashimizu	

### 1.1.4 Document Specifications

#### (1) ADF capacity

Paper is delivered from the ADF paper chute as follows.

Note that the following figures are based on A4 (210 mm x 297 mm) paper size.

Lb	14	17.1	20	21.8	24	28.0	56
g/m <sup>2</sup>	52.3	64	75	81.4	90	104.7	209.4
kg/ream	45	55	-	70	-	90	180
Capacity	12	12	10	10	9	7	3

#### (2) Paper size

Paper sizes that can be fed are as follows.

Size	Standard	Remarks
Maximum paper size	216 x 297 mm [8.5 x 11.7 in.] (Portrait) *up to 355.6 mm (Legal portrait) possible	However, for documents smaller than A6 size (105 x 148 mm), the error rate for skew, offset, jams, and same magnification, for example, are excluded.
Minimum paper size	50.8 x 50.8 mm (Portrait, landscape)	

#### (3) Ream weight

Ream weights that can be fed are as follows.

Paper	Standard	Remarks
Standard office paper, postcards, business cards	Ream weight: 55 to 90 kg/ream Basis weight: 64 to 104.7 g/m <sup>2</sup> Pounds: 17.1 to 28 lbs	
Picture postcards	Ream weight: 55 to 280 kg/ream (0.4 mm thickness or less) Basis weight: 64 to 325.6 g/m <sup>2</sup> Pounds: 17.1 to 87.2 lbs	Confirm the following conditions before performing scanning: <ul style="list-style-type: none"> <li>• The power cable is connected</li> <li>• Normal temperature/humidity</li> <li>• Photos are loaded face down</li> </ul>

#### (4) Paper type

[Normal paper (Standard office paper)]

Paper quality: Fuji Xerox P paper, Fuji Xerox G70 paper, Xerox4200 paper

Size/Feeding direction/The number of sheets fed

A5	Portrait/Landscape	12 sheets (64 g/m <sup>2</sup> conversion)
B5	Portrait	12 sheets (64 g/m <sup>2</sup> conversion)
A4	Portrait	12 sheets (64 g/m <sup>2</sup> conversion)
8.5" x 11"	Portrait	12 sheets (64 g/m <sup>2</sup> conversion)
8.5" x 14"	Portrait	12 sheets (64 g/m <sup>2</sup> conversion)

[Within specification]

Paper quality: Wood-free paper, OCR sheets, OMR sheets, PPC paper, Recycle paper

Size/Feeding direction/Number of sheets fed

A5 ~ A4/LT	Portrait	12 sheets (64 g/m <sup>2</sup> conversion)
Shape:	Basically rectangular	
Aspect ratio	0.7 ~ 1.4	

[Special paper]

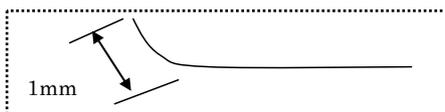
Paper quality:

- A) Wood-free paper (104.7 g/m<sup>2</sup> A5 - A4/ LT), Bond paper
- B) Perforated paper, Thermal paper, Non-carbon paper (A/B/C)
- C) Tracing paper

						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768	Refar to P2		
Rev.	Date	Desig.	Check	Appr.	Description			
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu	PFU LIMITED	
							Page	15 / 115

(5) Curled edges/End damage

- Curled-up height with 1 mm or more



**NOTICE**

- Documents hand-written with a pencil may be smeared during a scan. The rollers of the scanner get dirty and multi-feeding may be caused. In the case where you scan such documents, clean the rollers as often as possible. (Refer to Section 8.2)
- Do not scan the following types of documents:
  - Documents with paper clips and/or staples (Remove clips and staples to scan these documents.)
  - Documents before ink dries (Scan the documents after the ink dries)
  - Documents larger than 216 mm or 8.5 in. (width), 863 mm or 34 in. (length)
  - Materials other than paper such as fabric, metal foil, or transparencies, or plastic card
  - Documents with pasted photos or memo papers
- If you directly load the following types of documents and scan, the documents may be damaged or scanned incorrectly.
  - Documents smaller than 50.8 x 50.8 mm (2 x 2 in.)
  - Documents thinner than 64 g/m<sup>2</sup> (55 kg/ream)
  - Documents of non-uniform thickness (e.g. envelopes and paper sheets with other paper sheets affixed)
  - Wrinkled or curled documents
  - Folded or torn documents
  - Tracing paper
  - Coated paper
  - Photographs (printing paper)
  - Documents surrounded by perforation or punches
  - Documents of not-square (or not-rectangular) shaped paper
  - Carbon paper or thermal paper
  - Documents with pasted photos or memo papers
- Carbonless paper contains chemical substances that may damage the Pad ASSY and/or rollers such as Pick roller. When scanning carbonless paper, clean as needed to maintain the efficiency of the scanner. Furthermore, according to the type of carbonless paper, the life of the scanner might shorten when compared to being used with normal office paper.

						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768	Refer to P2		
Rev.	Date	Desig.	Check	Appr.	Description		PFU LIMITED	Page 16 / 115
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu		

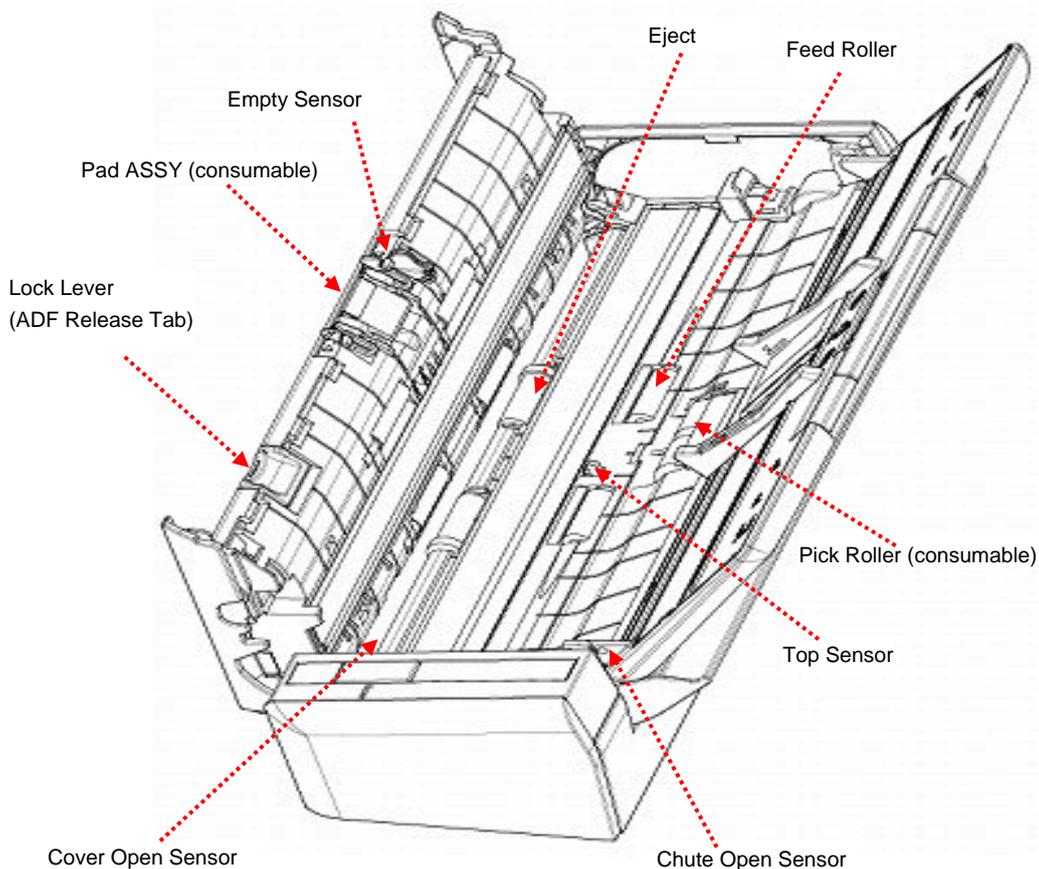
## Chapter 2 Scanner Operation

### 2.1 Scanner Operation

This section describes the operation of each part.

#### 2.1.1 ADF Unit

##### (1) Names in the ADF

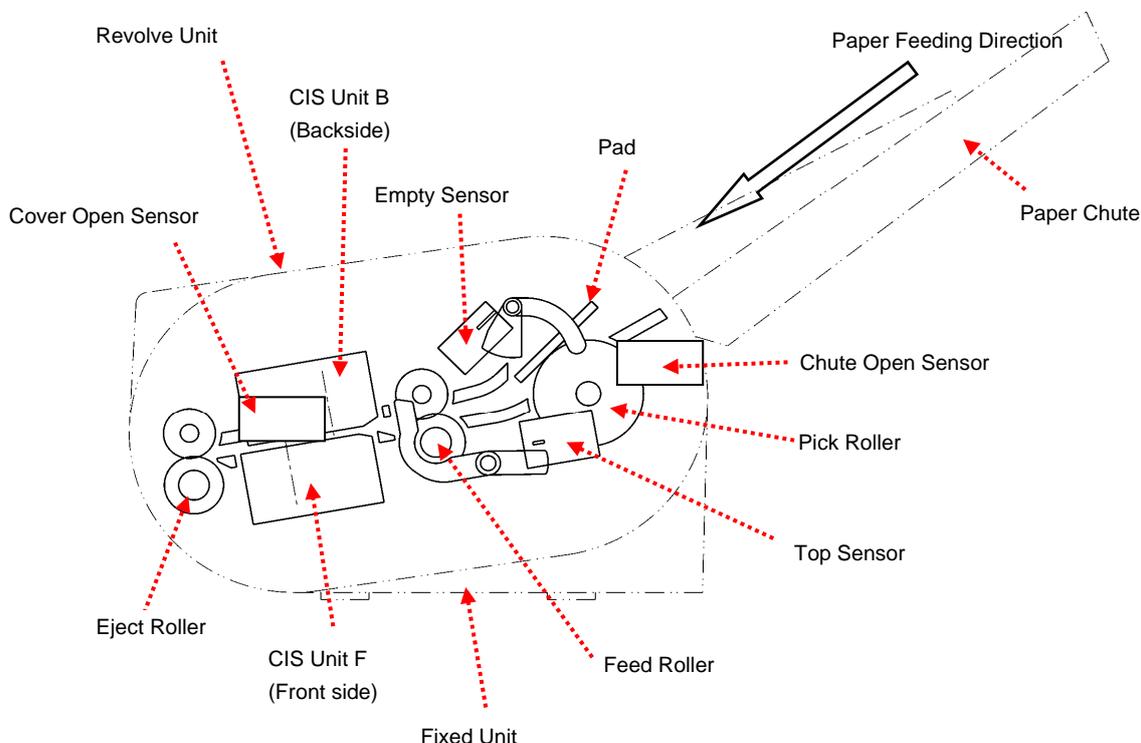


						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768	Refer to P2		
Rev.	Date	Desig.	Check	Appr.	Description		PFU LIMITED	Page 17 / 115
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu		

**(2) Paper separation**

The Empty sensor detects the document on the Paper chute. Documents that are set on the Paper chute are separated respectively by the Pick roller and the Pad ASSY. The Top sensor detects the leading edge of the paper and also detects paper jams. The documents are fed by the Feed roller at the speed that corresponds to the specified scanning resolution until they are stacked on the stacker by the Eject roller.

The Empty sensor, Top sensor, Chute open sensor, and Cover open sensor are installed in the scanner.



**(3) Consumables**

The Pick roller and Pad ASSY are consumables and are the user's responsibility to replace. (Refer to Section 8.3). The scanner supports two consumable counters; the Pick roller counter and the Pad ASSY counter. These counters indicate the number of sheets scanned since each consumable has been replaced. Users can check the counters by the ScanSnap Manager. Service technicians can check the counters by using Test program (Refer to Section 7.5). They can also reset the consumable counters after the consumables have been replaced (Refer to Section 8.3.3, 8.3.4).

**(4) Drive unit**

The Pick roller, Feed rollers and Eject rollers are turned by the Feed motor. The ADF drive circuit and the motor fuse are located in the CT PCA. If abnormal electric current runs through the ADF drive circuit, the current is cut off by the motor fuse in the CT PCA.

						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768	Refer to P2		
Rev.	Date	Desig.	Check	Appr.	Description		PFU LIMITED	Page 18 / 115
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu		

### 2.1.2 Reading Station

#### (1) Optical system

Documents are set on the ADF Paper chute, with front side face down. The front side of the document is scanned by the CIS Unit F in the Fixed unit, and the backside of the document is scanned by the CIS Unit B in the Revolve unit. Note that these two CIS units have individual part numbers.

The image on the document is projected to the monochrome CMOS sensor through the same magnification optical system (Cellfox lens) and converted to image signals that are 10 bit per pixel at 600 dpi resolution.

#### (2) Light source

The scanner uses RGB 3-color LED (included in CIS Unit) that illuminates the area of the document scanned by the CIS Unit in order to get sufficient output. This LED is turned ON/OFF, controlled by the CT PCA.

The LED is not a consumable because its life is about 1,000 hours, which means that the lamps last the life of the scanner (5 years). The LED lights only during scanning. It lights off in standby mode.

#### (3) Scan controller

Before scanning a document, the scanner scans the white background at the scanning section and adjusts the gain of the CIS amplifier. If the CIS output does not reach a reference level after the gain adjustment, an Optical alarm is issued.

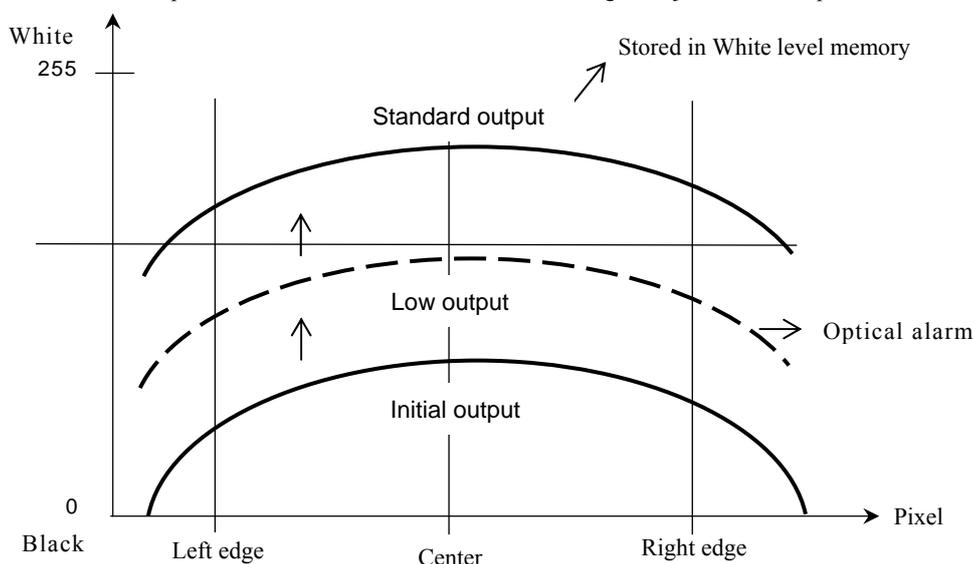


Figure 1.2.2 AGC (Automatic Gain Control)

When the gain adjustment is completed successfully, the scanner feeds the document to the scanning section at the speed that corresponds to the specified scanning resolution. The leading edge of the document is detected by the Top sensor in front of the scanning section. When the document is fed from the Top sensor by some defined length for front and back side scanning (the length which determines sub-scanning offset), the scanner starts scanning the image.

						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768 Referto P2	PFU LIMITED		Page 19 / 115
Rev.	Date	Desig.	Check	Appr.	Description			
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu		

### 2.1.3 Controller

#### (1) CT PCA

The CT PCA controls the units by the firmware.

The CT PCA includes the following connectors.

- USB connector (1)
- DC voltage input connector

The firmware can be updated from the PC.

#### (2) OP Panel

The OP Panel on the operator panel includes not only the switches and lamps, but also the EEPROM that records the information below. Before replacing the OP Panel with a new one, you need to move all the data stored in the EEPROM to the CT PCA temporarily, and then restore the data from the CT PCA to the new OP Panel after replacing the OP Panel.

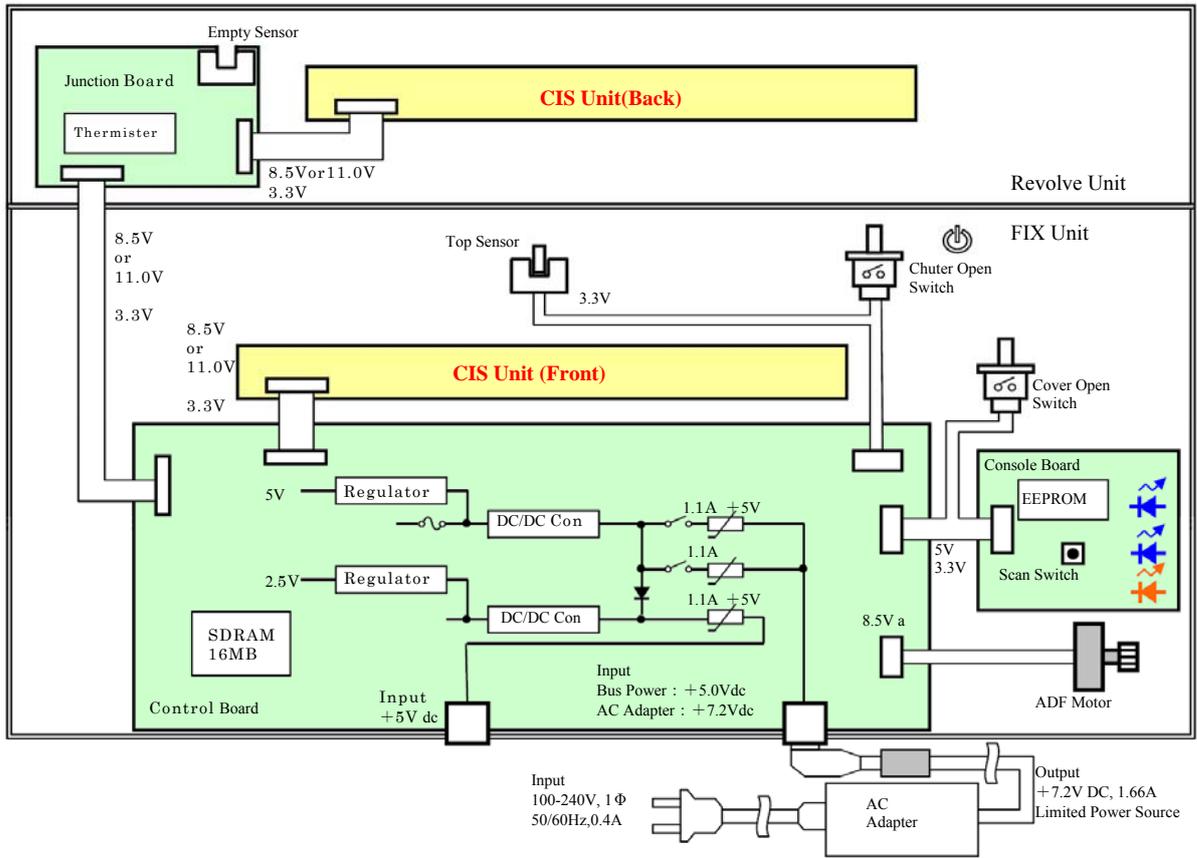
- Magnification value for main/sub-scanning direction
- Offset correction value for main/sub-scanning direction
- Values of Pad counter and Pick roller counter
- First date of the scanner operation, scanner life count, Number of Alarms, Date of shipping, S/N)

#### (3) Junction PCA

The Junction PCA includes the empty sensor.

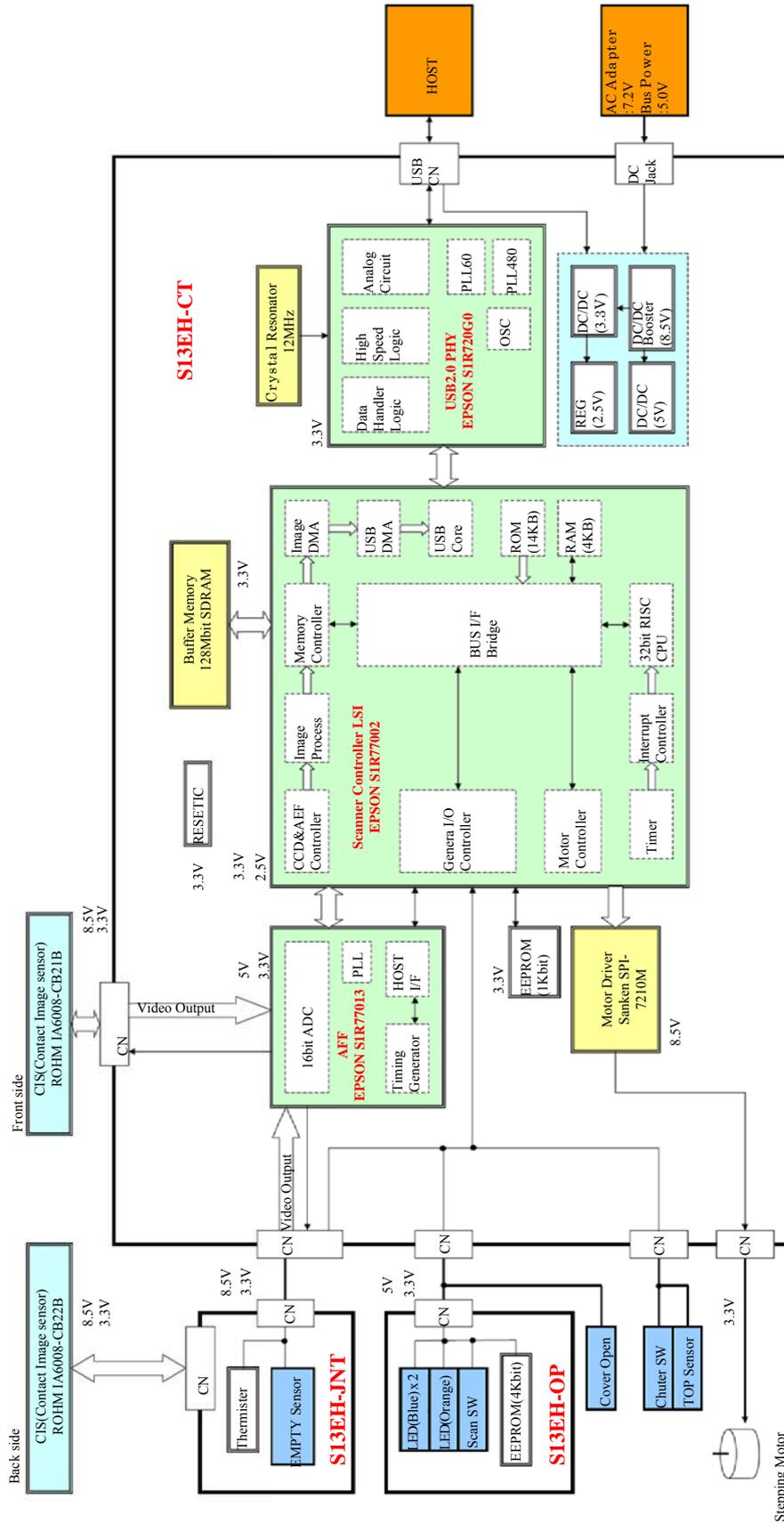
						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768	Refer to P2		
Rev.	Date	Desig.	Check	Appr.	Description		PFU LIMITED	Page 20 / 115
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu		

2.1.4 Scanner Block Diagram



						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768 Referto P2			
Rev.	Date	Desig.	Check	Appr.	Description	PFU LIMITED	Page	21 / 115
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by		Iwashimizu	

2.1.5 Circuit Block Diagram



						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768 Refarto P2			
Rev.	Date	Desig.	Check	Appr.	Description			
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu	PFU LIMITED	Page 22 / 115

## Chapter 3 Installation

### 3.1 Unpacking

#### 3.1.1 Unpacking the Scanner

##### NOTICE

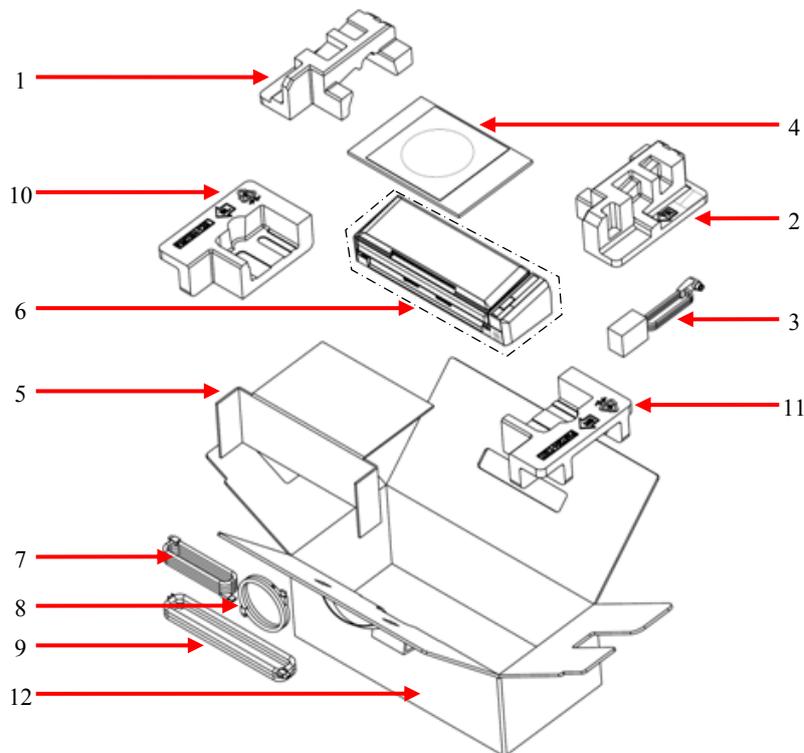
This scanner weighs approximately 1.4 kg (3.0 kg including packaging).

Follow the procedure below to unpack the scanner.

1. Open the upper lid of the outer box.
2. Remove the accessories, AC adapter, and cables.
3. Remove the ACC PAD/CUSHION-TL/CUSHION-TR.
4. Remove the polyethylene bag containing the scanner.
5. Remove the scanner from the polyethylene bag.
6. Peel off the tape protecting the scanner.

The following table lists the packaging configuration.

No.	Item	Quantity	Remarks
1	CUSHION-TL	1	
2	CUSHION-TR	1	
3	AC Adapter	1	
4	Accessories	1	Refer to “3.1.2” and check the contents of the accessories.
5	ACC PAD	1	
6	Scanner Device	1	ScanSnap S1300i device
7	USB Cable	1	
8	USB Cable P	1	
9	AC Cable	1	The contents may vary depending on the country and the scanner model purchased.
10	CUSHION-BL	1	
11	CUSHION-BR	1	
12	Box	1	



						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768	Refer to P2		
Rev.	Date	Desig.	Check	Appr.	Description		PFU LIMITED	Page 23 / 115
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu		

### 3.1.2 Checking Appearance and Accessories

Perform a check on the packaged contents of the following items.

- The scanner is not damaged, and does not contain any scratches
- None of the accessories are missing
- The cables and connectors are not damaged
- None of the documents or disks are damaged

Rev.02

No.	Packaged item	Product name	Device		Appearance	Remarks
			ScanSnap S1300i	ScanSnap S1300i <del>Rack2</del> Deluxe		
1	Scanner		1	1		
2	AC cable		1	1		The contents may vary depending on the country and the scanner model purchased.
3	AC adapter		1	1		Rated voltage: 7.2 V Rated current: 1.66 A
4	USB bus power cable		1	1		
5	USB cable		1	1		
6	Accessories	<del>Getting Started</del> QIS	1	1		
7		Safety Precautions	1	1		
8		Setup DVD-ROM	1	1		Getting Started
9		<del>Rack2-File</del> Rack2-File Smart with Magic Desktop	---	1		

						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768	Ref:arto P2		
Rev.	Date	Desig.	Check	Appr.	Description		PFU LIMITED	Page 24 / 115
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu		

## 3.2 Installing the Scanner

### 3.2.1 For Safety Installation

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

Refer to Section 1.1.2 “Scanner Specifications/Environmental Specifications” for information of input power and scanner dimensions.

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

						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768	Refer to P2		
Rev.	Date	Desig.	Check	Appr.	Description		PFU LIMITED	Page 25 / 115
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu		

### 3.2.2 Software

All bundled software for this scanner has been included on the Setup DVD-ROM.

The software that has been included on the Setup DVD-ROM of the ScanSnap S1300i is as follows.

#### 3.2.2.1 ScanSnap S1300i Bundled Software

No.	Software Name	Explanation
1	ScanSnap Manager	This scanner driver is required to scan documents with the ScanSnap. The scanned image can be saved as a PDF or JPEG file. You need to have ScanSnap Connect Application installed on your mobile device to save PDF or JPEG files to your mobile device. You can download ScanSnap Connect Application for mobile devices from an application store such as App Market.
2	ScanSnap Organizer <Windows>	You can use this application to display image data (PDF or JPEG files) without opening them, create folders and arrange files as you like.
3	CardMinder <Windows>	You can use this application to efficiently digitalize a large number of business cards. Text recognition can be performed on business cards and you can create a database to facilitate card data management and searches.
4	Cardiris <Mac OS>	You can use this application to efficiently digitalize a large number of business cards by performing text recognition on them.
5	ABBYY FineReader for ScanSnap	This application can perform text recognition on the scanned images using OCR (Optical Character Recognition) and convert the image data to Word, Excel or PowerPoint files that can be edited. In Mac OS, only conversion to Word and Excel files is supported.
6	Evernote for Windows <Windows> ----- Evernote for Mac <Mac OS>	You can easily save files in Evernote using the ScanSnap.
7	Scan to Microsoft SharePoint <Windows>	You can easily save files in SharePoint and Office Live using the ScanSnap.

						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768	Refer to P2		
Rev.	Date	Desig.	Check	Appr.	Description		PFU LIMITED	Page 26 / 115
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu		

### 3.2.3 Installing the Software

#### 3.2.3.1 ScanSnap S1300i Bundled Software

This section explains how to install the following software in Windows.

- ScanSnap Manager
- ScanSnap Organizer
- CardMinder
- ABBYY FineReader for ScanSnap

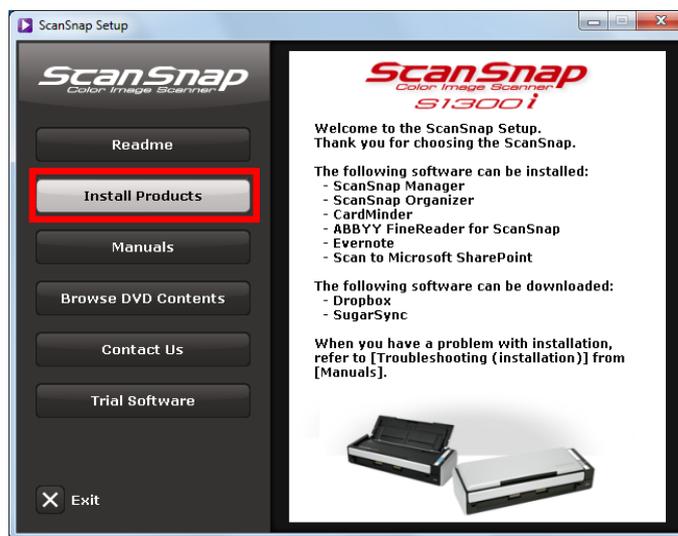
(1) Turn on the computer and log on as a user with Administrator privileges.

(2) Insert the Setup DVD-ROM into the DVD-ROM drive.

The [ScanSnap Setup] dialog box appears.

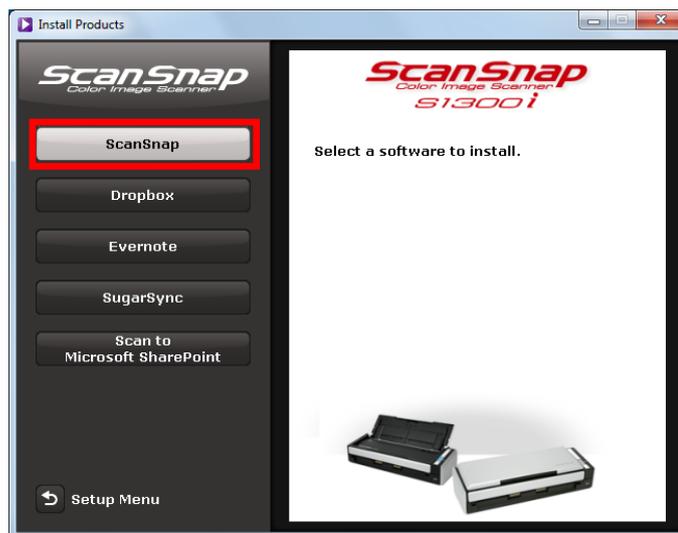
(3) Click the [Install Products] button.

The [Install Products] dialog box appears.



(4) Click the [ScanSnap] button.

The [ScanSnap] dialog box appears, displaying the [Welcome to the InstallShield Wizard for ScanSnap] screen.



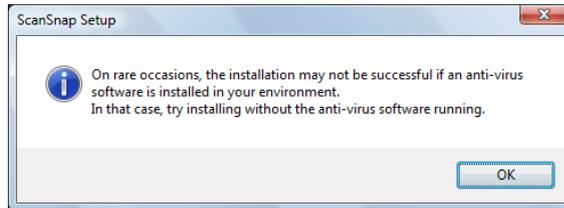
						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768	Refer to P2		
Rev.	Date	Desig.	Check	Appr.	Description			
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu	PFU LIMITED	Page 27 / 115

(5) Click the [Next] button.

The [ScanSnap Setup] dialog box appears.

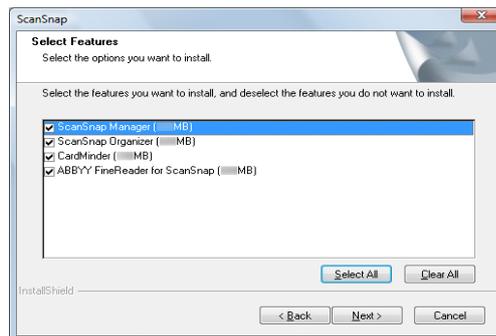
(6) Read the message about anti-virus software, and click the [OK] button.

The [Select Features] screen appears.



(7) Confirm the check boxes of the software you want to install are selected, and click the [Next] button.

The [Choose Destination Location] screen appears.



(8) Confirm the destination folder, and then click the [Next] button.

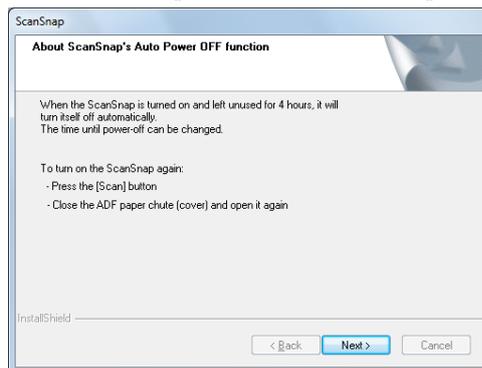
A confirmation about accepting the license agreement appears.

(9) Read the "END-USER LICENSE AGREEMENT", select [I accept the terms of the license agreement], and then click the [Next] button.

The [Start Copying Files] screen appears.

(10) Confirm the settings, and then click the [Next] button.

Installation starts. When the installation is complete, the [About ScanSnap's Auto Power OFF function] screen appears.



(11) Read the explanation, and then click the [Next] button.

The "Install Complete" screen appears.

(12) Click the [Finish] button.

(13) Remove the Setup DVD-ROM from the DVD-ROM drive.

						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768	Refer to P2		
Rev.	Date	Desig.	Check	Appr.	Description			
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu	PFU LIMITED	Page 28 / 115

### 3.2.4 Installation

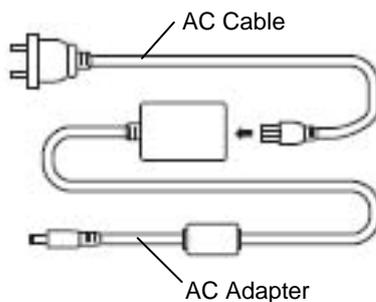
#### NOTICE

- Only one scanner can be used by a computer at a time.
- Use only the cable supplied with the ScanSnap.
- Do not use AC adapters other than the one supplied with this ScanSnap. Doing so may cause damage to the ScanSnap.  
 Manufacturer: LEI  
 Model No.: NU13-1072166-I3

(1) Select the power cable type according to power source for the ScanSnap.

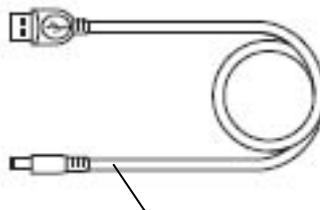
**<Power cable>**

To use the ScanSnap at a fixed location, use the power cable to connect to an AC outlet.



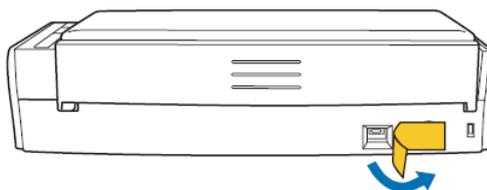
**<USB bus power cable>**

To use the ScanSnap in a remote location with your laptop computer or a place without AC outlets available nearby, use the USB bus power cable for power supply from your computer.



USB Bus Power Cable

(2) Remove the tape seal covering the USB connector and power connector of the ScanSnap.



						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768	Refer to P2		
Rev.	Date	Desig.	Check	Appr.	Description		PFU LIMITED	Page 29 / 115
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu		

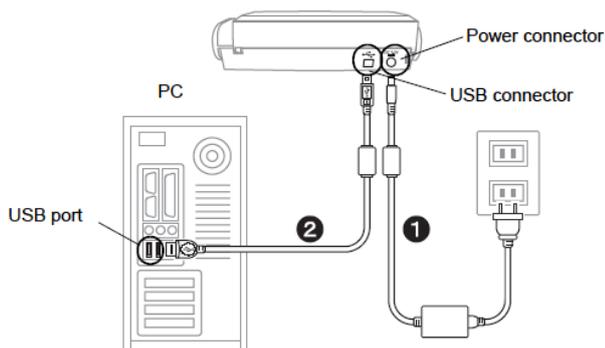
(3) Connect cables to the scanner.

**NOTICE**

- To power on the ScanSnap, the USB cable and either of the power cables (power cable or USB bus power cable) need to be connected.
- When connecting to USB hub, make sure to connect the ScanSnap to the USB hub which is connected to a USB port of your computer. Use a powered USB hub (with AC adapter).
- If USB port or USB hub is USB 1.1, scanning speed will slow down.

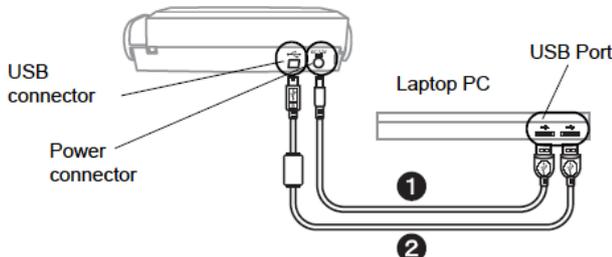
<Using the Power Cable>

1. Connect the power cable (1) to the power connector of the ScanSnap and plug in the AC outlet.
2. Connect the USB cable (2) to the USB connector on the ScanSnap and the USB port on your computer.

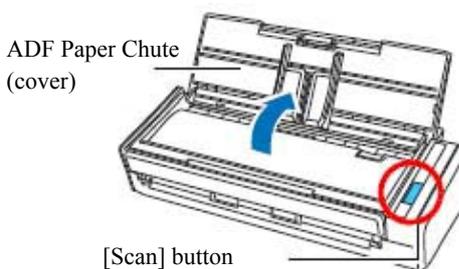


<Using the USB Bus Power Cable>

1. Connect the USB bus power cable (1) to the power connector on the ScanSnap and the USB port on your computer.
2. Connect the USB cable (2) to the USB connector on the ScanSnap and the USB port on your computer.



- (5) Open the ADF paper chute (cover) of the ScanSnap.  
The [Scan] button starts blinking, indicating that the ScanSnap is turned ON.  
Then, the ScanSnap should be detected automatically by the computer.

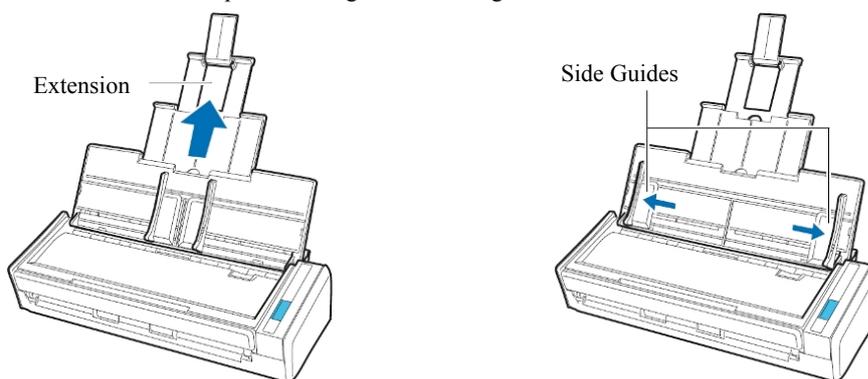


						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768	Ref:arto P2		
Rev.	Date	Desig.	Check	Appr.	Description		PFU LIMITED	Page 30 / 115
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu		

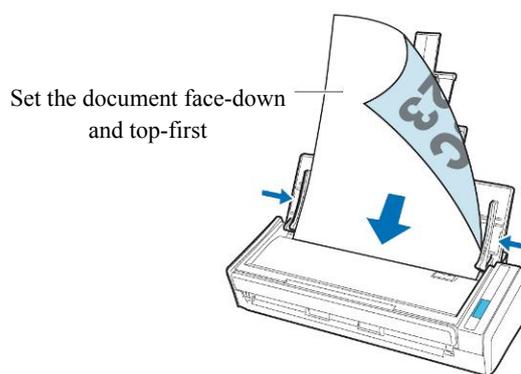
### 3.2.5 Scan Test

(1) Load a document in the ScanSnap.

Pull up the extension and slide open the side guides of the right and left.

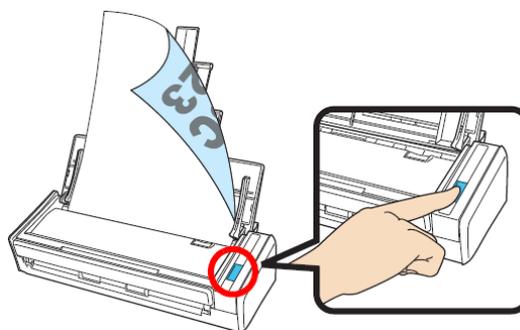


Load the document on the ADF paper chute (cover), and adjust the side guides to the size of the document.



(2) Press the [Scan] button on the ScanSnap.

Scanning starts. The Quick Menu appears when scanning is completed.



(3) In the Quick Menu, click the icon of the application to link with ScanSnap Manager.

The selected application is started.



						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768	Refer to P2		
Rev.	Date	Desig.	Check	Appr.	Description		PFU LIMITED	Page 31 / 115
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu		

## Chapter 4 Maintenance Parts

### 4.1 Maintenance Parts List

No.	Description	Part Number	Quantity		Appearance	Replacement Procedure	Replacement Time	Adj	Remarks
			L1	L2					
<b>1. Revolve Unit Parts</b>									
1-1	REVOLVE-UNIT	PA03643-D971	1		4.2.1	6.6.1	~ 15 min.		
1-2	CIS UNIT B	PA03541-E911		1	4.2.2	6.6.2	~ 15 min.		For backside scanning
1-3	S13EH-JNT (Joint PCA)	PA03643-K921		1	4.2.3	6.6.3	~ 15 min.		
1-4	TOP-COVER	PA03643-K961		1	4.2.4	6.6.4	~ 15 min.		
1-5	FRONT COVER	PA03603-K931		1	4.2.5	6.6.5	~ 15 min.		
<b>2. Fixed Unit Parts</b>									
2-1	FIXED UNIT	PA03643-D951	1		4.2.6	6.7.1	~ 15 min.		
2-2	CIS UNIT F	PA03541-E901		1	4.2.7	6.7.2	~ 15 min.		For front side scanning
2-3	S13EH-OP (OP Panel)	PA03643-K931		1	4.2.8	6.7.3	~ 15 min.		
2-4	CHUTER SW CABLE	PA03603-K951		1	4.2.9	6.7.4	~ 15 min.		
2-5	MOTOR	PA03541-K906		1	4.2.10	6.7.5	~ 15 min.		
2-6	HKRING	PA03541-K911		1	4.2.11	6.7.6	~ 15 min.		
2-7	GUIDE P ASSY	PA03541-F926		1	4.2.12	6.7.7	~ 15 min.		
2-8	PICK SHAFT UNIT	PA03603-F971		1	4.2.13	6.7.8	~ 15 min.		
<b>3. CT PCA</b>									
3-1	S13EH-CT (CT PCA)	PA03643-K941	1		4.2.14	6.8	~ 15 min.		
<b>4. Outer Covers</b>									
4-1	BASE COVER ASSY	PA03603-F961	1		4.2.15	6.9.1	~ 15 min.		
4-2	LID ASSY	PA03603-F951	1		4.2.16	6.9.2	~ 15 min.		
4-3	GUIDE A ASSY	PA03603-F947	1		4.2.17	6.9.3	~ 15 min.		
4-4	CHUTER ASSY	PA03643-F931	1		4.2.18	6.9.4	~ 15 min.		
4-5	SIDE COV R ASSY	PA03603-F921	1		4.2.19	6.9.5	~ 15 min.	---	
4-6	SIDE COVER L	PA03603-K956	1		4.2.20	6.9.6	~ 15 min.	---	
<b>5. Adapters/Cables</b>									
5-1	AC ADAPTER	PA03541-K926	1		4.2.21	---	~ 15 min.	---	
5-2	AC CABLE E	PA63112-2001	1		4.2.22	---	~ 15 min.	---	
5-3	AC CABLE UK	PA63118-2001	1		4.2.22	---	~ 15 min.	---	
5-4	AC CABLE U	PA63113-2001	1		4.2.22	---	~ 15 min.	---	
5-5	AC CABLE C	PA63115-1831	1		4.2.22	---	~ 15 min.	---	
5-6	USB CABLE P	PA61001-0163	1		4.2.23	---	~ 15 min.	---	For Power Supply
5-7	USB CABLE	PA61001-0164	1		4.2.24	---	~ 15 min.	---	
<b>6. Test Charts</b>									
6-1	TEST CHART No.42	PA03277-Y120	1		4.2.25	---	---	---	
6-2	TEST CHART (W)	PA03277-Y123	1		4.2.26	---	---	---	

						Name	<b>ScanSnap S1300i Maintenance Manual</b>		
						Drawing No.	<b>P1PA03643-B0XX/6</b>		
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768	Refarto P2			
Rev.	Date	Desig.	Check	Appr.	Description			PFU LIMITED	Page 32 / 115
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu			

## 4.1.1 Items to Test After Maintenance Part Replacement

No.	Replacement Part	Test Item				Reference
		Save EEPROM Data				7.3
		Restore EEPROM Data				7.4
		Refer to the EEPROM Data				7.5
		Adjustment (TP-TOWER)* <sup>1</sup>				7.6
Remarks						
1	REVOLVE-UNIT				Y	
2	CIS UNIT B				Y	
3	S13EH-JNT				Y	
4	FIXED UNIT	Y	Y		Y	
5	CIS UNIT F				Y	
6	S13EH-OP	Y	Y		▲ *2	When changing the S13EH-OP, make sure to save EEPROM data.
7	CHUTER SW CABLE				Y	
8	MOTOR				Y	
9	HKRING				Y	
10	PICK SHAFT UNIT				Y	
11	S13EH-CT				Y	

\*1: When performing adjustment (TP-TOWER), the following test chart is required.

No.	Test Chart	Part Number	Reference
1	TEST CHART No.42	PA03277-Y120	Refer to 4.2.25
2	TEST CHART (W)	PA03277-Y123	Refer to 4.2.26

\*2: If EEPROM data cannot be saved/restored, an adjustment in the ▲ item is required.

						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768	Refer to P2		
Rev.	Date	Desig.	Check	Appr.	Description		PFU LIMITED	Page 33 / 115
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu		

## 4.2 Maintenance Parts Specification/Appearance

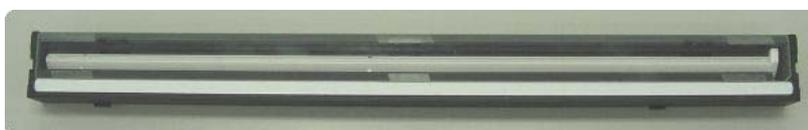
### 4.2.1 Revolve Unit

Description	Part number	Replacement procedure	Remarks
REVOLVE-UNIT	PA03643-D971	6.6.1	Includes the following maintenance parts: - CIS Unit B      - Joint PCA - Top cover        - Front cover - Pad ASSY After replacing, adjustment is required (refer to Section 7.6).



### 4.2.2 CIS Unit B (for backside scanning)

Description	Part number	Replacement procedure	Remarks
CIS UNIT B	PA03541-E911	6.6.2	For backside scanning After replacing, adjustment is required (refer to Section 7.6).



Front

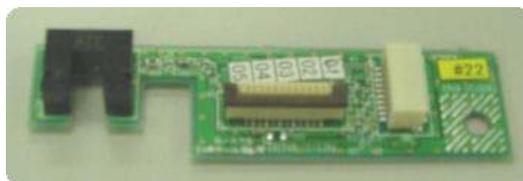


Back

						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768	Refer to P2		
Rev.	Date	Desig.	Check	Appr.	Description		PFU LIMITED	Page 34 / 115
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu		

### 4.2.3 Joint PCA

Description	Part number	Replacement procedure	Remarks
S13EH-JNT	PA03643-K921	6.6.3	



### 4.2.4 Top Cover

Description	Part number	Replacement procedure	Remarks
TOP-COVER	PA03643-K961	6.6.4	Front cover also needs to be replaced when the Top cover is replaced.



### 4.2.5 Front Cover

Description	Part number	Replacement procedure	Remarks
FRONT COVER	PA03603-K931	6.6.5	

Front



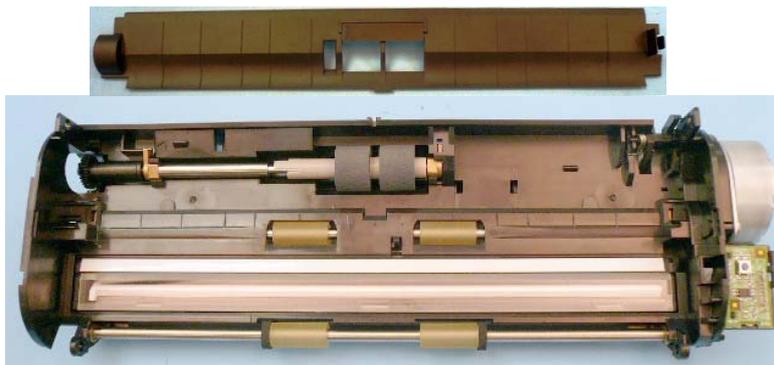
Back



						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768	Refer to P2		
Rev.	Date	Desig.	Check	Appr.	Description		PFU LIMITED	Page 35 / 115
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu		

**4.2.6 Fixed Unit**

Description	Part number	Replacement procedure	Remarks
FIXED UNIT	PA03643-D951	6.7.1	Includes the following maintenance parts: - CIS Unit F      - OP Panel (S13EH-OP) - Motor            - HK Ring - Guide P ASSY   - Pick Roller - Pick Shaft Unit - Chuter SW Cable * Log data needs to be backed up and restored as the OP Panel is mounted. Back up the Log data: Refer to Section 7.3. Restore the Log data: Refer to Section 7.4. After replacing, adjustment is required (refer to Section 7.6).



**4.2.7 CIS Unit F (for front side scanning)**

Description	Part number	Replacement procedure	Remarks
CIS UNIT F	PA03541-E901	6.7.2	For front side scanning After replacing, adjustment is required (refer to Section 7.6).



						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768	Refer to P2		
Rev.	Date	Desig.	Check	Appr.	Description		PFU LIMITED	Page 36 / 115
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu		

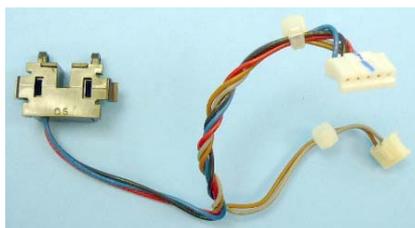
## 4.2.8 OP Panel

Description	Part number	Replacement procedure	Remarks
S13EH-OP	PA03643-K931	6.7.3	Log data needs to be backed up and restored as the OP Panel is mounted. Back up the Log data: Refer to Section 7.3. Restore the Log data: Refer to Section 7.4.



## 4.2.9 Chuter SW Cable

Description	Part number	Replacement procedure	Remarks
CHUTER SW CABLE	PA03603-K951	6.7.4	Top sensor



## 4.2.10 Motor

Description	Part number	Replacement procedure	Remarks
MOTOR	PA03541-K906	6.7.5	After replacing, adjustment is required (refer to Section 7.6).



						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768	Refer to P2		
Rev.	Date	Desig.	Check	Appr.	Description		PFU LIMITED	Page 37 / 115
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu		

## 4.2.11 HK Ring

Description	Part number	Replacement procedure	Remarks
HKRING	PA03541-K911	6.7.6	2 parts in a set



## 4.2.12 Guide P ASSY

Description	Part number	Replacement procedure	Remarks
GUIDE P ASSY	PA03541-F926	6.7.7	



## 4.2.13 Pick Shaft Unit

Description	Part number	Replacement procedure	Remarks
PICK SHAFT UNIT	PA03603-F971	6.7.8	



						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768	Refer to P2		
Rev.	Date	Desig.	Check	Appr.	Description		PFU LIMITED	Page 38 / 115
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu		

4.2.14 CT PCA

Description	Part number	Replacement procedure	Remarks
S13EH-CT	PA03643-K941	6.8	After replacing, adjustment is required (refer to Section 7.6).



4.2.15 Base Cover ASSY

Description	Part number	Replacement procedure	Remarks
BASE COVER ASSY	PA03603-F961	6.9.1	



4.2.16 Lid ASSY

Description	Part number	Replacement procedure	Remarks
LID ASSY	PA03603-F951	6.9.2	



						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768	Refer to P2		
Rev.	Date	Desig.	Check	Appr.	Description		PFU LIMITED	Page 39 / 115
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu		

**4.2.17 Guide A ASSY**

Description	Part number	Replacement procedure	Remarks
GUIDE A ASSY	PA03603-F947	6.9.3	

Front



Back



**4.2.18 Chuter ASSY**

Description	Part number	Replacement procedure	Remarks
CHUTER ASSY	PA03643-F931	6.9.4	



						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768	Refer to P2		
Rev.	Date	Desig.	Check	Appr.	Description		PFU LIMITED	Page 40 / 115
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu		

## 4.2.19 Side Cover R ASSY

Description	Part number	Replacement procedure	Remarks
SIDE COV R ASSY	PA03603-F921	6.9.5	



## 4.2.20 Side Cover L

Description	Part number	Replacement procedure	Remarks
SIDE COVER L	PA03603-K956	6.9.6	



## 4.2.21 AC Adapter

Description	Part number	Replacement procedure	Remarks
AC ADAPTER	PA03541-K926	---	Rated: 7.2V



						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768	Refer to P2		
Rev.	Date	Desig.	Check	Appr.	Description		PFU LIMITED	Page 41 / 115
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu		

## 4.2.22 AC Cables

Description	Part number	Replacement procedure	Remarks
AC CABLE E	PA63112-2001	---	For Europe
AC CABLE UK	PA63118-2001		For Europe (UK)
AC CABLE U	PA63113-2001		For North America
AC CABLE C	PA63115-1831		For China

## 4.2.23 USB Cable P

Description	Part number	Replacement procedure	Remarks
USB CABLE P	PA61001-0163	---	For power supply



## 4.2.24 USB Cable

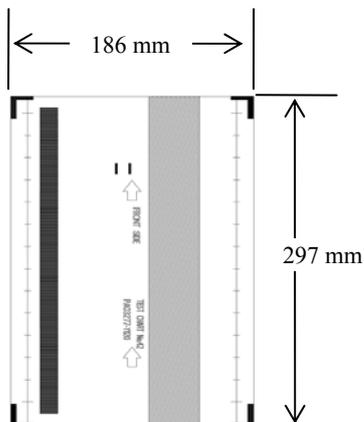
Description	Part number	Replacement procedure	Remarks
USB CABLE	PA61001-0164	---	



						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768	Refer to P2		
Rev.	Date	Desig.	Check	Appr.	Description		PFU LIMITED	Page 42 / 115
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu		

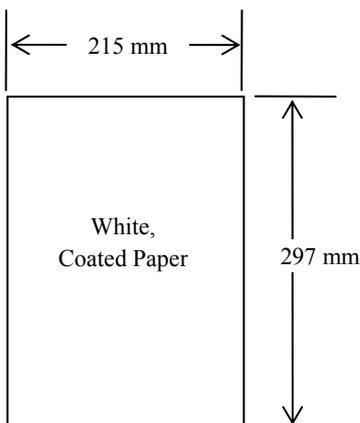
4.2.25 Test Chart No. 42

Description	Part number	Replacement procedure	Remarks
TEST CHART No.42	PA03277-Y120	---	<ul style="list-style-type: none"> <li>• Replace when used for adjustment over 200 times, or if errors continually occur due to being unclean.</li> <li>• When storing, keep out direct sunlight.</li> </ul>



4.2.26 Test Chart (W)

Description	Part number	Replacement procedure	Remarks
TEST CHART (W)	PA03277-Y123	---	<ul style="list-style-type: none"> <li>• Replace when used for adjustment over 200 times, or if errors continually occur due to being unclean.</li> <li>• When storing, keep out direct sunlight.</li> </ul>



						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768	Refarto P2		
Rev.	Date	Desig.	Check	Appr.	Description		PFU LIMITED	Page 43 / 115
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu		

## Chapter 5 Troubleshooting

### 5.1 Temporary Errors and Alarms

#### 5.1.1 Temporary Errors

Temporary errors occur during scanning operation and can be remedied by the operator. They are displayed on the PC screen through the driver.

#### 5.1.2 Alarms

Alarm requires maintenance by an authorized service person.

The following table shows how the alarms are displayed. The alarms are displayed on a PC screen and/or on the operator panel (LED).

If the alarm has occurred during scanning, notify the error detail in the following way.  
If the [Scan] button is pressed during the error display, the Ready display (blue) returns.

#### NOTICE

The operator panel (LED) blinks blue immediately after the power is turned on, during scanning, or in suspend status.

LED display			Error type	Description
The number of times LED blinks	Blinking cycle	Color		
1	[0.5s Light OFF → 0.5s Light ON] x 1 time → 2.0s Light OFF → Returns to the beginning (Repeats)	Orange	SDRAM alarm	
2	[0.5s Light OFF → 0.5s Light ON] x 2 times → 2.0s Light OFF → Returns to the beginning (Repeats)		Optical alarm (ADF front side)	Indicates when any scanning parts (CIS unit or cable) for front side or back side are defective.
3	[0.5s Light OFF → 0.5s Light ON] x 3 times → 2.0s Light OFF → Returns to the beginning (Repeats)		Optical alarm (ADF back side)	
4	[0.5s Light OFF → 0.5s Light ON] x 4 times → 2.0s Light OFF → Returns to the beginning (Repeats)		Motor alarm	
5	—		Reserved	—
6	[0.5s Light OFF → 0.5s Light ON] x 6 times → 2.0s Light OFF → Returns to the beginning (Repeats)		EEPROM (1K) alarm	
			EEPROM (4K) alarm	
7	[0.5s Light OFF → 0.5s Light ON] x 7 times → 2.0s Light OFF → Returns to the beginning (Repeats)		Image transfer error	Unsupported
8	—		Reserved	—
9	[0.5s Light OFF → 0.5s Light ON] x 9 times → 2.0s Light OFF → Returns to the beginning (Repeats)		USB Controller alarm	Unsupported
—	0.5s Light OFF → 0.5s Light ON → 0.5s Light OFF → 1.5s Light ON → Returns to the beginning (Repeats)		γRAM alarm	

1) EEPROM (1K) alarm, EEPROM (4K) alarm, SDRAM alarm, USB controller alarm, and γRAM alarm are detected at initial diagnosis immediately after the power is turned on, and then,

- EEPROM (1K) alarm, EEPROM (4K) alarm, and USB control chip alarm are displayed by blinking 3 times and

						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768	Refarto P2		
Rev.	Date	Desig.	Check	Appr.	Description			
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu	PFU LIMITED	
							Page	44 / 115

the normal light is turned on.

- SDRAM alarm and  $\gamma$ RAM alarm are kept displayed. The [Scan] button is disabled.

If more than one of these alarms occurs at a time, the one in top priority is displayed following the order of the priority described below:

SDRAM alarm >  $\gamma$ RAM alarm > EEPROM (4K) alarm > USB controller alarm > EEPROM (1K) alarm

2) Optical alarm (ADF front), optical alarm (ADF back), EEPROM (4K) alarm, and USB control chip alarm may occur during operation. The alarms which occur during operation are displayed in the order of occurrence.

3) Although the scanner can perform a scan operation even if these alarms occur during scanning, the scanner might not operate properly.

For instance, when EEPROM is damaged, the EEPROM data is scanned by default settings, which means the settings of magnification, offset and white level may not be optimum for the document to be scanned.

## 5.2 (Reserved)

						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768	Refer to P2		
Rev.	Date	Desig.	Check	Appr.	Description		PFU LIMITED	Page 45 / 115
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu		

## 5.3 Troubleshooting

When a Temporary error or an Alarm occurs, find the troubleshooting procedure from the list in this section and go to the related section for maintenance. Before starting the troubleshooting, get the following information from your customer to understand whether the error is scanner-related or system-related.

- Is the scanner operated correctly?
- Are the fault symptoms reproducible or persistent?  
(Check if the target scanner causes the same error connected to other computer systems.)

The following table lists the errors to troubleshoot and their related sections.

Error category	Error description	Related section	Remarks
Device	Scanner does not turn ON. (LED does not light on the operator panel)	5.3.1	
	Scanning does not start.	5.3.2	
Image	Scanned image is distorted.	5.3.3	
	Too much jitter on scanned image.	5.3.4	
	Offset or image size is incorrect.	5.3.5	
	Vertical streaks appear in scanned image	5.3.6	
Temporary error	Frequent paper jam	5.3.7	
	Chronic "No paper on the Paper chute"	5.3.8	
	Chronic "ADF cover open"	5.3.9	
	Frequent multi feed error	5.3.10	
Alarm	Optical alarm (ADF front side or ADF back side)	5.3.11	
	EEPROM alarm	5.3.12	
	Image memory alarm	5.3.13	
	RAM alarm	5.3.13	

						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768	Referto P2		
Rev.	Date	Desig.	Check	Appr.	Description		PFU LIMITED	Page 46 / 115
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu		

**How to Troubleshoot:**

The troubleshooting should be conducted from item number 1 to the last item number in each table. Continue the troubleshooting until the error is corrected.

**5.3.1 Scanner Does not Turn ON (No LED blinking on the operator Panel)**

Item No.	Check items	Answer	How/where to check
1	[Using the AC Cable/AC Adapter] Check to see if the AC cable and AC adapter are properly connected.	Yes	Proceed to No.2.
	[Using the USB Bus Power Cable] Check to see if the USB bus power cable is properly connected.	No	Connect the cable properly.
2	[Using the AC Cable/AC Adapter] Is the proper voltage output from the AC adapter? Rated voltage: 7.2V 	Yes	Proceed to No.3.
	[Using the USB Bus Power Cable] Is the proper voltage output from the USB bus power cable? Rated voltage: 5 V	No	[Using the AC Cable/AC Adapter] Replace the AC adapter or AC cable. Is the problem solved?  [Using the USB Bus Power Cable] Replace the USB bus power cable. Is the problem solved?
3	Close the ADF Paper Chute to turn the scanner OFF. After more than 2 seconds, open it to turn the scanner ON. Is the scanner turned ON?	Yes	Proceed to No.4
		No	The error may be caused by the chute open sensor. Replace the Fixed Unit (Refer to Section <a href="#">6.7.1</a> ). Is the problem solved?
4	Turn the PC OFF, and then turn it ON again. Is the scanner turned ON?	Yes	End
		No	Replace the CT PCA (Refer to Section <a href="#">6.8</a> ).

						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768	Refer to P2		
Rev.	Date	Desig.	Check	Appr.	Description		PFU LIMITED	Page 47 / 115
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu		

## 5.3.2 Scanning Does not Start

Item No.	Check items	Answer	How/where to check
1	Does the LED on the Control panel light?	Yes	If a Temporary error or an Alarm is displayed on the Control panel, follow the corresponding troubleshooting. If there is no error or alarm, proceed to No.2.
		No	Check the scanner referring to Section 5.3.1.
2	Does ScanSnap Manager operate properly? Refer to the EEPROM data (Section 7.5) and if scanner data is not displayed, ScanSnap Manager is not operating properly.)	Yes	Proceed to No.5.
		No	Proceed to No.3.
3	Close the ADF Paper Chute to turn off the power. After more than 2 seconds, open the Chute cover to turn on the power. Is the problem solved?	Yes	End.
		No	Proceed to No.4.
4	Check if the USB cable is connected properly. If you use a USB hub, connect the scanner directly to the computer. Is the problem solved?	Yes	End.
		No	Proceed to No.5.
5	Restart the computer. Is the problem solved?	Yes	End.
		No	Replace the CT PCA (Refer to Section 6.8).

						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	Refer to P2	P0212A01768		
Rev.	Date	Desig.	Check	Appr.	Description		PFU LIMITED	Page 48 / 115
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu		

### 5.3.3 Scanned Image is Distorted

Due to loose connectors, damaged wires in cable harnesses, or defective parts, scanned images may have regular or random patterns of distortion on them. This kind of distorted image can be trouble-shot with the following procedure.

Item No.	Check items	Answer	How/where to check
1	Is the USB cable connected properly?	Yes	Proceed to No.2.
		No	Connect the USB cable properly.
2	Is a Temporary error or an Alarm displayed on the LED?	Yes	Follow the corresponding troubleshooting.
		No	Proceed to No.3.
3	Which side of the image is distorted, front side or backside?	Front side	Proceed to No.4.
		Backside	Proceed to No.6.
4	Check to see if the cable between the CT PCA and CIS Unit F (for front side scanning) is not damaged and the connector is properly connected. (Refer to Section 6.7.2.) Is the problem solved?	Yes	End.
		No	Proceed to No.5.
5	Replace the Fixed unit. (Refer to Section 6.7.1.) Is the problem solved?	Yes	End.
		No	Replace the CT PCA (Refer to Section 6.8).
6	Check to see if the cable connecting the CT PCA and CIS Unit B (for back side scanning) is not damaged and the connector is properly connected. (Refer to Section 6.6.2.) Is the problem solved?	Yes	End.
		No	Proceed to No.7.
7	Replace the Revolve unit. (Refer to Section 6.6.1.) Is the problem solved?	Yes	End.
		No	Replace the CT PCA (Refer to Section 6.8).

						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768	Refer to P2		
Rev.	Date	Desig.	Check	Appr.	Description		PFU LIMITED	Page 49 / 115
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu		

### 5.3.4 Too Much Jitter on Scanned Image when Scanning from the ADF

The following picture shows a sample of a scanned image where “Jitter” error occurred. This error occurs when the ADF feed rollers do not transport the document smoothly.

Scanned image with jitter

ABCDEFQG

Normal scanned image

ABCDEFQG

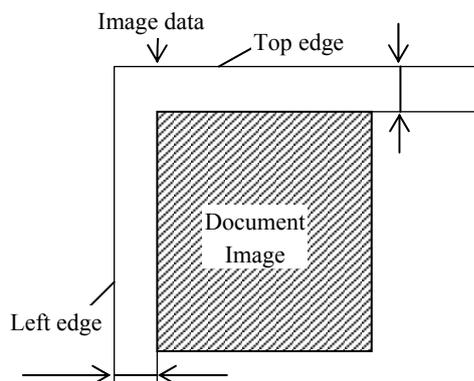
Item No.	Check items	Answer	How/where to check
1	Does the document being scanned meet the paper specification? (Refer to Section 1.1.4).	Yes	Proceed to No.2.
		No	Use specified paper.
2	Clean the Feed rollers, Idler rollers and Eject rollers (Refer to Section 8.2.4). Is the problem solved?	Yes	End.
		No	Proceed to No.3.
3	Replace the Pick roller and Pad ASSY. (Refer to Section 8.3.3 or 8.3.4). Is the problem solved?	Yes	End.
		No	Proceed to No.4.
4	Is the Motor installed properly? (Refer to Section 6.7.5).	Yes	End.
		No	Proceed to No.5.
5	Check to see if the CT PCA and the Motor cable are properly connected (Refer to Section 6.7.5). Is the problem solved?	Yes	End.
		No	Proceed to No.6.
6	Replace the Motor (Refer to Section 6.7.5). Is the problem solved?	Yes	End.
		No	Proceed to No.7.
7	Replace the Fixed unit (Refer to Section 6.7.1). Is the problem solved?	Yes	End.
		No	Replace the CT PCA (Refer to Section 6.8).

						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768	Refer to P2		
Rev.	Date	Desig.	Check	Appr.	Description		PFU LIMITED	Page 50 / 115
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu		

### 5.3.5 Offset or Image Size is incorrect

Offset: Indicates the distance from the top or left edge of the image data to the document image.

Image size: Indicates the document image size corresponding to the actual document dimensions (length and width)



Item No.	Check items	Answer	How/where to check
1	Does the document being scanned meet the paper specification? (Refer to Section 1.1.4.)	Yes	Proceed to No.2.
		No	Use specified paper.
2	Clean the Feed rollers, Idler rollers and Eject rollers. (Refer to Section 8.2.4.) Is the problem solved?	Yes	End.
		No	Proceed to No.3.
3	Replace the Pick roller and Pad ASSY. (Refer to Section 8.3.3 or 8.3.4.) Is the problem solved?	Yes	End.
		No	Proceed to No.4.
4	Adjust the images using Test program. (Refer to Section 7.6.) Is the problem solved?	Yes	The scanner satisfies the specification. Recheck Item No.1 through No.3 again.
		No	Proceed to No.5.
5	Is the Chuter SW cable installed and does it work properly? (Refer to Section 6.7.4.)	Yes	Proceed to No.6.
		No	Install Chuter SW cable properly or replace it.
6	Is the Motor installed properly? Is the belt tension adjusted properly? (Refer to Section 6.7.5.) Is the problem solved?	Yes	End.
		No	Proceed to No.7.
7	Check to see if the cable between the CT PCA and Motor is not damaged and the connector is properly connected. (Refer to Section 6.7.5.) Is the problem solved?	Yes	End.
		No	Proceed to No.8.
8	Replace the Motor. (Refer to Section 6.7.5.) Is the problem solved?	Yes	End.
		No	Proceed to No.9.
9	Check to see if the CIS Unit which scans the image incorrectly is installed properly. Front side image: Refer to Section 6.7.2. Backside image: Refer to Section 6.6.2.	Yes	End.
		No	Proceed to No.10.
10	Replace the Revolve unit. (Refer to Section 6.6.1.) Is the problem solved?	Yes	End.
		No	Proceed to No.11.
11	Replace the Fixed unit. (Refer to Section 6.7.1.) Is the problem solved?	Yes	End.
		No	Replace the CT PCA. (Refer to Section 6.8.)

						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768	Refer to P2		
Rev.	Date	Desig.	Check	Appr.	Description		PFU LIMITED	Page 51 / 115
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu		

### 5.3.6 Vertical Streaks Appear in Scanned Image

Item No.	Check items	Answer	How/where to check
1	Clean the glass, white background (white reference sheet), Pick roller, Pad ASSY and Feed rollers. (Refer to Section 8.2.4.) Is the problem solved?	Yes	End.
		No	Proceed to No.2.
2	Adjust the image using Test program with a clean test chart. (Refer to Section 7.6.) Is the problem solved?	Yes	End.
		No	Proceed to No.3.
3	Check to see if the glass surface of CIS Unit on the side where vertical streaks appeared is clean. (Refer to Section 8.2.4.) Check to see if the cable between the CT PCA and the CIS Unit is not damaged. Check to see if the connectors of above cable are connected. (Refer to Section 6.7.2, 6.6.2.) Is the problem solved?	Yes	End.
		No	Proceed to No.4.
4	Replace the CIS Unit on the side where vertical streaks appeared. Front side image: Refer to Section 6.7.2. Backside image: Refer to Section 6.6.2. Is the problem solved?	Yes	End.
		No	Replace the CT PCA. (Refer to Section 6.8.)

### 5.3.7 Frequent Document Jam Error

Item No.	Check items	Answer	How/where to check
1	Does the document being scanned meet the paper specification? (Refer to Section 1.1.4.)	Yes	Proceed to No.2.
		No	Use specified paper.
2	Are the edges of the document aligned? • Align the edge of documents for stable paper feeding. • Remove documents with crease or dog-ear corner. • Scanning different width of documents may cause skew and result in paper jam.	Yes	Proceed to No.3.
		No	Align paper edges.
3	Clean the Feed Rollers, Eject Rollers and Idler rollers. (Refer to Section 8.2.4.) Is the problem solved?	Yes	End.
		No	Proceed to No.4.
4	Check the consumable counter by referring to the EEPROM data (Section 7.5) or the Test program. (Refer to Section 7.5) When the counter exceeds the values shown in Section 8.3.1, replace the Pick roller or Pad ASSY. (Refer to Section 8.3.3 or 8.3.4.) Is the problem solved?	Yes	End.
		No	Proceed to No.5.
5	Replace the Pick Shaft Unit (pick roller shaft). (Refer to Section 6.7.8.) Is the problem solved?	Yes	End.
		No	Proceed to No.6.
6	Replace the Chuter SW cable. (Refer to Section 6.7.4.) Is the problem solved?	Yes	End.
		No	Proceed to No.7.
7	Replace the Revolve unit. (Refer to Section 6.6.1.) Is the problem solved?	Yes	End.
		No	Proceed to No.8.
8	Replace the Fixed unit. (Refer to Section 6.7.1.) Is the problem solved?	Yes	End.
		No	Replace the CT PCA. (Refer to Section 6.8.)

						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768	Refer to P2		
Rev.	Date	Desig.	Check	Appr.	Description			
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu	PFU LIMITED	
							Page	52 / 115

## 5.3.8 Chronic “No Paper on the Paper Chute”

Item No.	Check items	Answer	How/where to check
1	Does the document being scanned meet the paper specification? (Refer to Section 1.1.4.)	Yes	Proceed to No.2.
		No	Use specified paper.
2	Do any paper strips remain around the Empty sensor lever (side of the Pad ASSY, circle below)? Is the problem solved? 	Yes	End.
		No	Proceed to No.3.
3	Replace the Joint PCA. (Refer to Section 6.6.3.) Is the problem solved?	Yes	End.
		No	Replace the CT PCA. (Refer to Section 6.8.)

## 5.3.9 Chronic “ADF Cover Open”

Item No.	Check items	Answer	How/where to check
1	Close the ADF Paper Chute to turn the scanner OFF. After more than 2 seconds, open it to turn the scanner ON. Is the problem solved?	Yes	End.
		No	Proceed to No.2.
2	Are any paper strips remain around the Cover open sensor (side of the [SCAN] button, circle below)? Is the problem solved? 	Yes	Proceed to No.3.
		No	Remove paper strips.
3	Replace the Revolve unit. (Refer to Section 6.6.1.) Is the problem solved?	Yes	End.
		No	Replace the CT PCA. (Refer to Section 6.8.)

						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768	Refer to P2		
Rev.	Date	Desig.	Check	Appr.	Description		PFU LIMITED	Page 53 / 115
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu		

## 5.3.10 Frequent Multi Feed

Item No.	Check items	Answer	How/where to check
1	Are the edges of the document aligned? · Align the edge of documents for stable paper feeding. · Remove documents with crease or dog-ear. · Scanning different width of documents may cause skew and result in multi feed.	Yes	Proceed to No.2.
		No	Align paper edges.
2	Clean the rollers of ADF. (Refer to Section 8.2.4.) Is the problem solved?	Yes	End.
		No	Proceed to No.3.
3	Check the consumable counter by referring to the EEPROM data (Section 7.5) or the Test program. (Refer to Section 7.5.) When the counter exceeds the values shown in Section 8.3.1, replace the Pick roller or Pad ASSY. Is the problem solved?	Yes	End.
		No	Proceed to No.4.
4	Replace the Revolve unit. (Refer to Section 6.6.1.) Is the problem solved?	Yes	End.
		No	Proceed to No.5.
5	Replace the Fixed unit. (Refer to Section 6.7.1.) Is the problem solved?	Yes	End.
		No	Replace the CT PCA. (Refer to Section 6.8.)

## 5.3.11 Optical Alarm (ADF Front Side or ADF Back Side)

Item No.	Check items	Answer	How/where to check
1	Close the ADF Paper Chute to turn the scanner OFF. After more than 2 seconds, open it to turn the scanner ON. Is the problem solved?	Yes	End.
		No	Proceed to No.2.
2	Check to see if the glass surface of the white background (white reference sheet) in the scanning area is dirty.	Yes	Open the ADF and clean the glass of the white background (white reference sheet). (Refer to Section 8.2.4.)
		No	Proceed to No.3.
3	Check to see if the LEDs light. Open the ADF and press the Cover open sensor to see if the LEDs light. If the lamps do not light, the error may be caused by the defective LED (CIS Unit). Is the LED turned ON?	Yes	Proceed to No.4.
		No	Replace the defective CIS Unit that does not light. · Front side scanning optical alarm: refer to Section 6.7.2. · Backside scanning optical alarm: refer to Section 6.6.2.
4	Check to see if the glass surface of the CIS Unit is dirty.	Yes	Clean the dirty glass surface of CIS Unit. (Refer to Section 8.2.4.)
		No	Proceed to No.5.
5	Check to see if the cable between the CIS Unit and the CT PCA is not damaged. Check to see if the connector is connected. Is the problem solved?	Yes	End.
		No	Replace the defective CIS Unit. · Front side scanning optical alarm: refer to Section 6.7.2. · Backside scanning optical alarm: refer to Section 6.6.2.

						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768	Refer to P2		
Rev.	Date	Desig.	Check	Appr.	Description		PFU LIMITED	Page 54 / 115
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu		

## 5.3.12 EEPROM Alarm

Item No.	Check items	Answer	How/where to check
1	Unplug the power cable and plug it again. Is the problem solved?	Yes	End.
		No	Proceed to No.2.
2	Replace the OP Panel and check to see if the problem is solved. (Refer to Section 6.7.3.)	Yes	End.
		No	Replace the CT PCA. (Refer to Section 6.8.)

## 5.3.13 Image Memory Alarm / RAM Alarm

Item No.	Check items	Answer	How/where to check
1	Unplug the power cable and plug it again. Is the problem solved?	Yes	End.
		No	Replace the CT PCA. (Refer to Section 6.8.)

						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768	Refer to P2		
Rev.	Date	Desig.	Check	Appr.	Description		PFU LIMITED	Page 55 / 115
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu		

## Chapter 6 Maintenance Procedure

This chapter describes how to replace maintenance parts, and how to clean assemblies that end users cannot clean. When assembling the maintenance parts, conduct necessary cleaning when instructed.

### 6.1 For Safety Operation

Please read this page carefully before disassembling or assembling.



**Warning**

#### Electric shock

Before disassembling or assembling, turn the power switch off, and unplug the Power cable / Feeding cable from the outlet.  
Otherwise, an electric shock may occur.



**CAUTION**

#### Injury

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

#### Machine damage

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

#### Notes when cleaning

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

#### How to unlock plastic hooks

Many parts of the scanner are held in place with plastic hooks.  
When removing parts that are held in place with these hooks, be very careful not to break the hooks.  
Pull out the hook to unlock, then pull up on the assembly to remove.



Do not use excessive force when removing parts held in place with these hooks.

						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768	Refer to P2		
Rev.	Date	Desig.	Check	Appr.	Description		PFU LIMITED	Page 56 / 115
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu		

## 6.2 Periodic Maintenance

Preventive maintenance is recommended on the scanner at the following intervals.

Item	Maintenance cycle
Periodic maintenance	Every 12 months

During maintenance, refer to Section 8.2 "Daily Care" and clean the parts if they are dirty.

## 6.3 Cleaning Maintenance Parts

None.

						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768	Referto P2		
Rev.	Date	Desig.	Check	Appr.	Description		PFU LIMITED	Page 57 / 115
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu		

## 6.4 Maintenance Tool

### 6.4.1 Maintenance Tool List

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

No.	Tools	Remarks	When to use
1	Philips screwdriver	For M3 screws	
2	Small flat-blade screwdriver		Removing sensors and connectors
3	Alcohol	Ethyl alcohol or isopropyl alcohol	For cleaning the glass (Note 1)
4	Cloth	Waste cloth or non-woven fabric cloth	For cleaning

Note 1: Do not use ethyl alcohol on the resin portion. (Doing so causes deterioration and breakage.)

### 6.4.2 Test Paper List

The test papers that are necessary for maintaining the device are shown in the table below.

No.	Tools	Quant.	Remarks	When to use
1	Test Chart No. 42 (PA03277-Y120)	1	Refer to Section 4.2.25	Adjustment (TP-TOWER) For the adjustment item, refer to Section 4.1.1.
2	Test Chart (W) (PA03277-Y123)	1	Refer to Section 4.2.26	Adjustment (TP-TOWER) For the adjustment item, refer to Section 4.1.1.

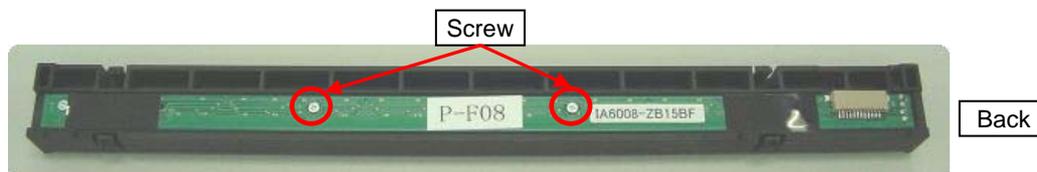
## 6.5 Non-disassembly Parts

### CAUTION

For this scanner, the following screws are adjusted at the factory. Do not attempt to disassemble or loosen them, as doing so will directly affect the function of the scanner.

<CIS Unit B / CIS Unit F>

Do not remove the screws from the circuit board on the backside of CIS Unit F / CIS Unit B.



						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768	Refer to P2		
Rev.	Date	Desig.	Check	Appr.	Description		PFU LIMITED	Page 58 / 115
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu		

## 6.6 Revolve Unit

### 6.6.1 Revolve Unit

#### NOTICE

When disassembling, try not to touch the scanning glass to avoid dirt.  
Refer to Section 4.2.1 for the part number of the Revolve Unit.

<Removal>

#### 1. Remove Lid ASSY.

(1) Referring to Section 6.9.2 “Lid ASSY”, remove the Lid ASSY.

#### 2. Remove CT PCA.

(2) Referring to Section 6.8 “CT PCA”, remove the CT PCA.

#### 3. Remove Side Cover R ASSY.

(3) Referring to Section 6.9.5 “Side Cover R ASSY”, remove the Side Cover R ASSY.

#### 4. Remove Side Cover L.

(4) Referring to Section 6.9.6 “Side Cover L”, remove the Side Cover L.

#### 5. Remove Base Cover ASSY.

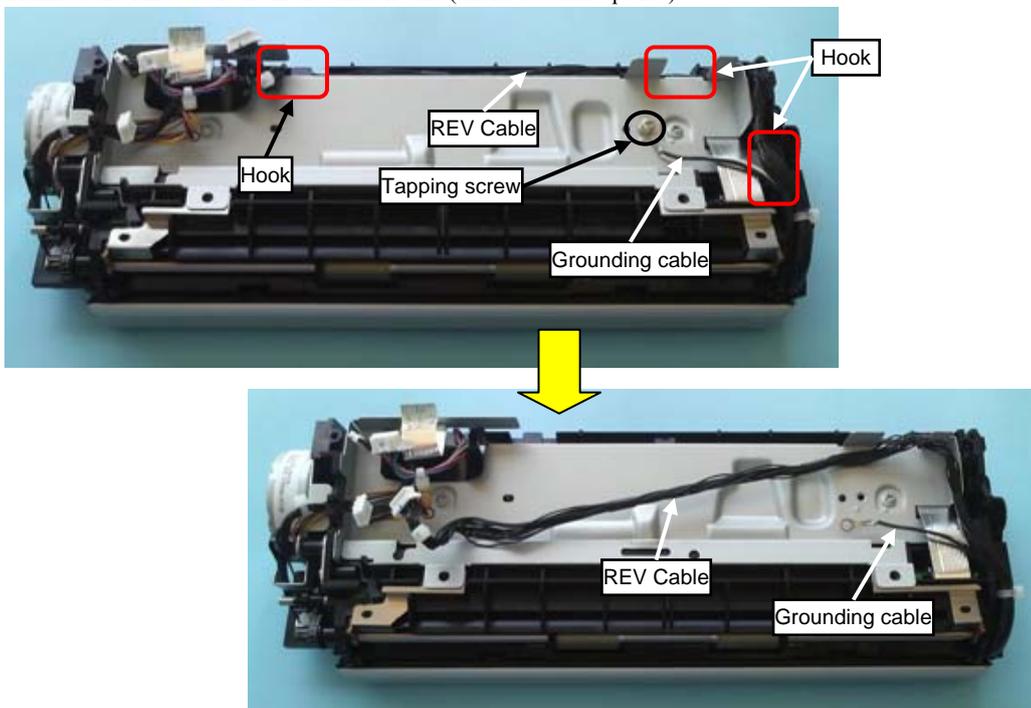
(5) Referring to steps (5) and (6) in Section 6.9.1 “Base Cover ASSY”, remove the Base Cover ASSY.

#### 6. Remove Guide A ASSY.

(6) Referring to steps (6) and (7) in Section 6.9.3 “Guide A ASSY”, remove the Guide A ASSY.

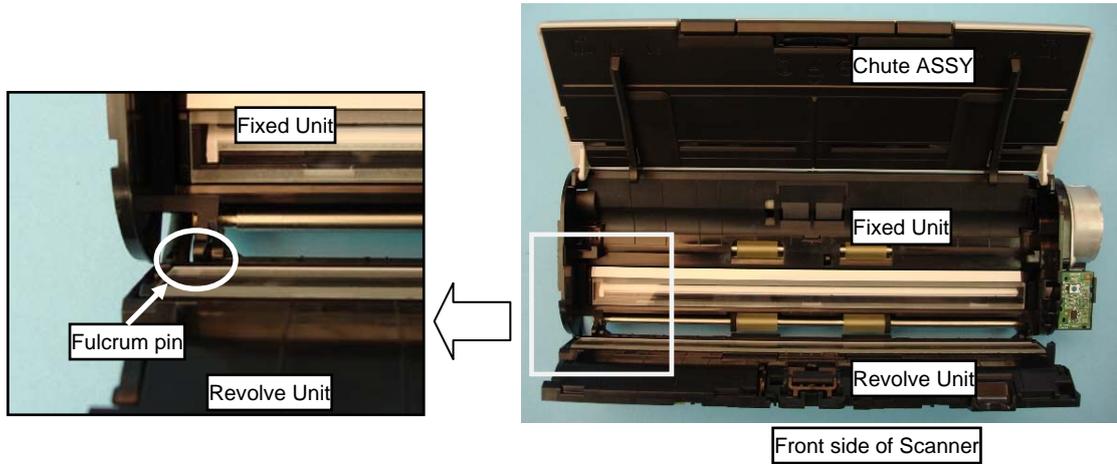
#### 7. Remove Revolve Unit.

(7) Turn the scanner over and remove the screw (circled) to remove the grounding cable.  
- Remove the REV cable from the three hooks (enclosed with squares).

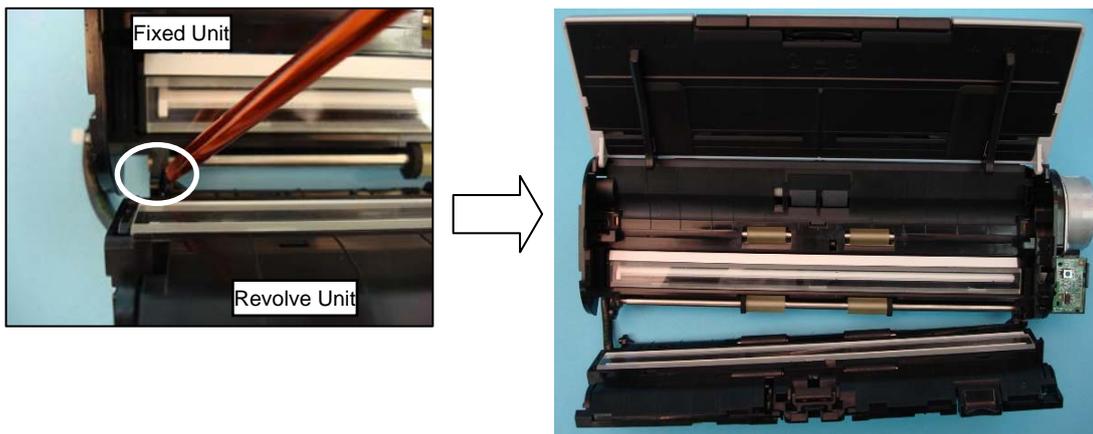


						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768	Refer to P2		
Rev.	Date	Desig.	Check	Appr.	Description			
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu	PFU LIMITED	
							Page	59 / 115

- (8) - Open the Chuter ASSY.
- Open Revolve Unit.
- Insert a small flat-blade screwdriver in the gap (circled) between the fulcrum pins at the left side of the Revolve Unit.



- Turn a small flat-blade screwdriver toward inside of the scanner to unlock the fulcrum pin, and then remove the Revolve Unit.



<Installation>

Follow the above procedure in reverse order.

**NOTICE**

- Insert the fulcrum pin at right side of the Revolve Unit first.
- The Pad ASSY is included in the Revolve unit. Referring to Section 8.3.2, reset the Pad ASSY count.
- Referring to Section 7.6 “How to Adjust and Test the Image Quality”, perform the image adjustment.

						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768	Refar to P2		
Rev.	Date	Desig.	Check	Appr.	Description		PFU LIMITED	Page 60 / 115
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu		

### 6.6.2 CIS Unit B (for backside scanning)

#### NOTICE

When disassembling, try not to touch the scanning glass to avoid dirt.  
Refer to Section 4.2.2 for the part number of the CIS Unit B.

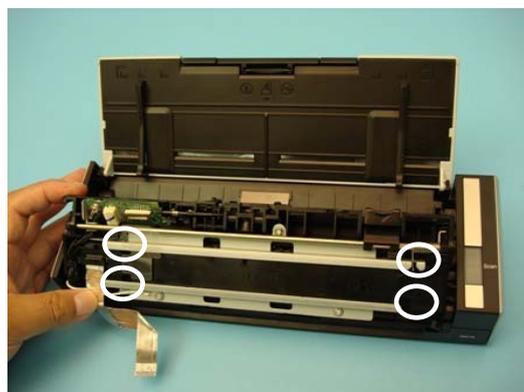
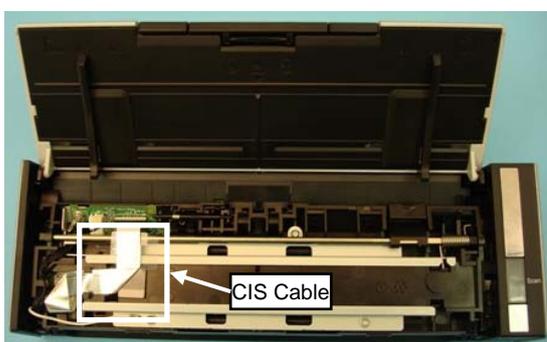
<Removal>

#### 1. Remove Top Cover.

(1) Referring to steps (2) ~ (3) in Section 6.6.4 “Top Cover”, remove the Top Cover.

#### 2. Remove CIS Unit.

- (2) - Remove the CIS cable from the Joint PCA connector (enclosed with solid square).
- Unlatch four tabs (circled) on the CIS Unit B with a small flat-blade screwdriver, and then push CIS Unit B downward (to the feeder side) to remove.
- Remove the CIS Unit B, and then disconnect the CIS cable from the CIS Unit B connector (enclosed with dotted square).



<Installation>

Follow the above procedure in reverse order.

#### NOTICE

- Do not forget to install the two springs.
- Referring to Section 7.6 “How to Adjust and Test the Image Quality”, perform the image adjustment.

						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768	Refer to P2		
Rev.	Date	Desig.	Check	Appr.	Description		PFU LIMITED	Page 61 / 115
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu		

### 6.6.3 Junction PCA

#### NOTICE

When disassembling, try not to touch the scanning glass to avoid dirt.

Refer to Section 4.2.3 for the part number of the Junction PCA.

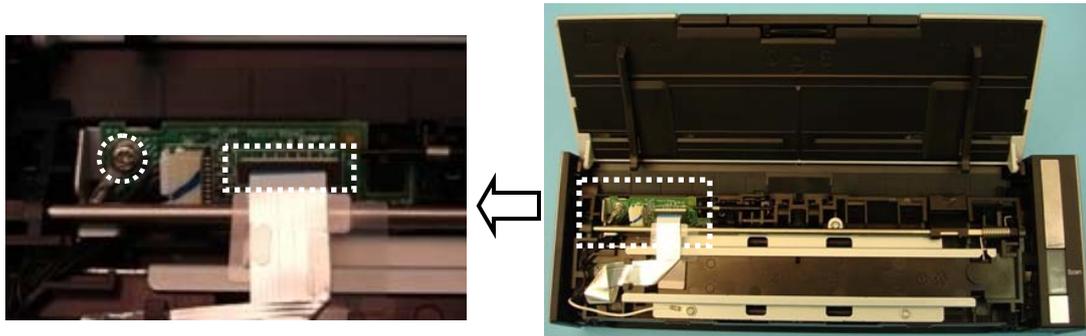
<Removal>

#### 1. Remove Top Cover.

(1) Referring to steps (2) ~ (3) in Section 6.6.4 “Top Cover”, remove the Top Cover.

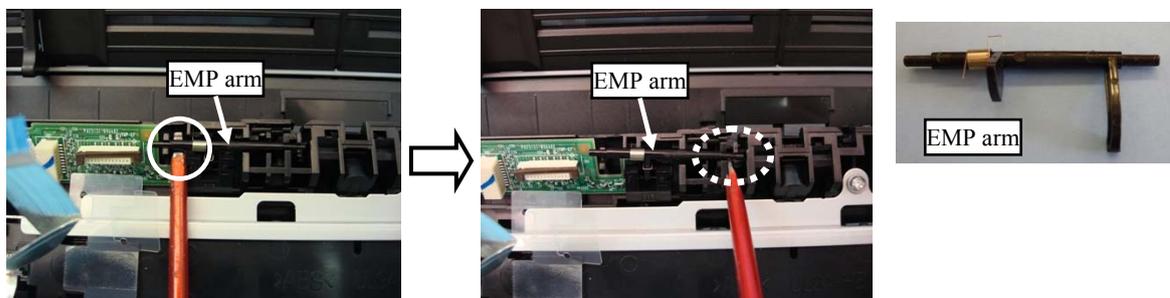
#### 2. Remove Junction PCA.

(2) Disconnect the flat cable (enclosed with square) and a screw (circled).

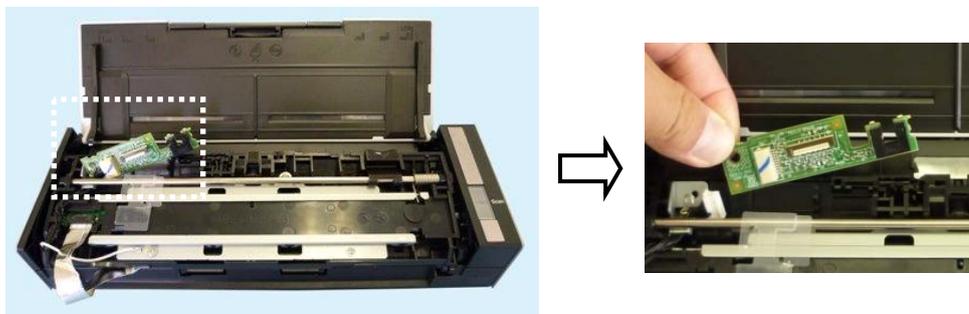


(3) Raise the left edge of the EMP arm (solid-circled) with a small flat-blade screwdriver to remove it from the frame.

Raise the right edge of the EMP arm (dot-circled) with a small flat-blade screwdriver to remove it from the frame, and then remove the EMP arm.



(4) Move the Junction PCA to the left, lift it up, and then remove it from the frame.



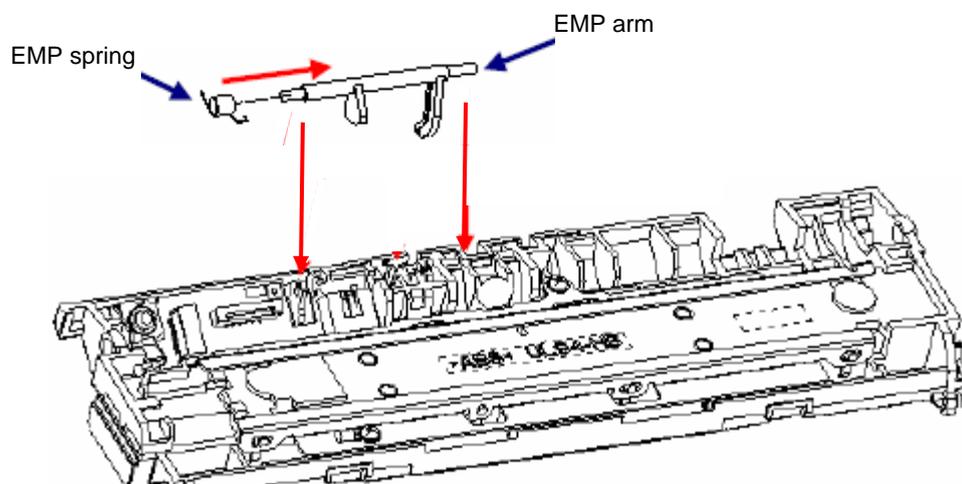
						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768 Referto P2			
Rev.	Date	Desig.	Check	Appr.	Description			
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu	PFU LIMITED	Page 62 / 115

<Installation>

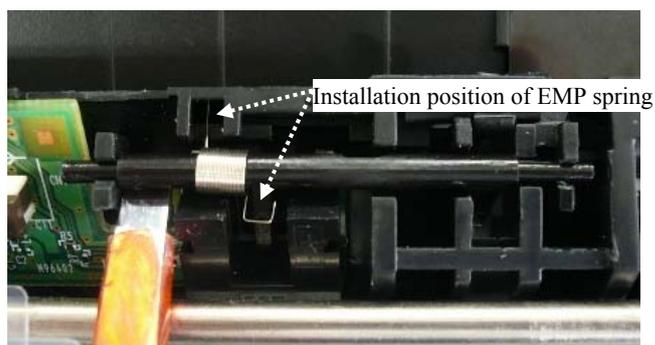
Follow the above procedure in reverse order.

**EMP Arm**

Attach the EMP spring to the EMP arm, and then install this unit to the frame.



Two arms of the EMP spring should be placed in the positions shown below.



**NOTICE**

Make sure that the EMP arm rotates smoothly.

						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768	Refar to P2		
Rev.	Date	Desig.	Check	Appr.	Description			
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu	PFU LIMITED	Page 63 / 115

### 6.6.4 Top Cover

#### NOTICE

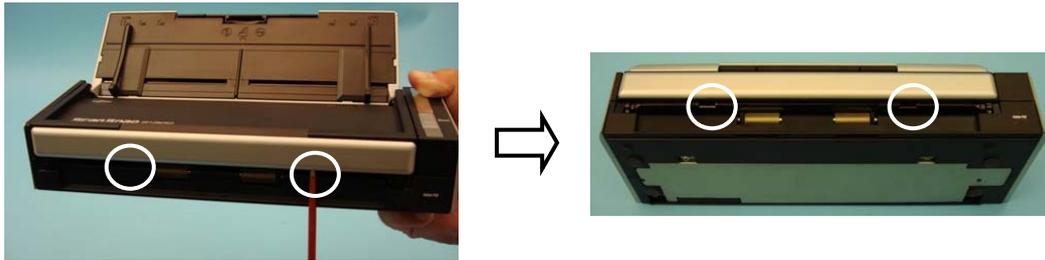
When disassembling, try not to touch the scanning glass to avoid dirt.

Refer to Section 4.2.4 for the part number of the Top Cover.

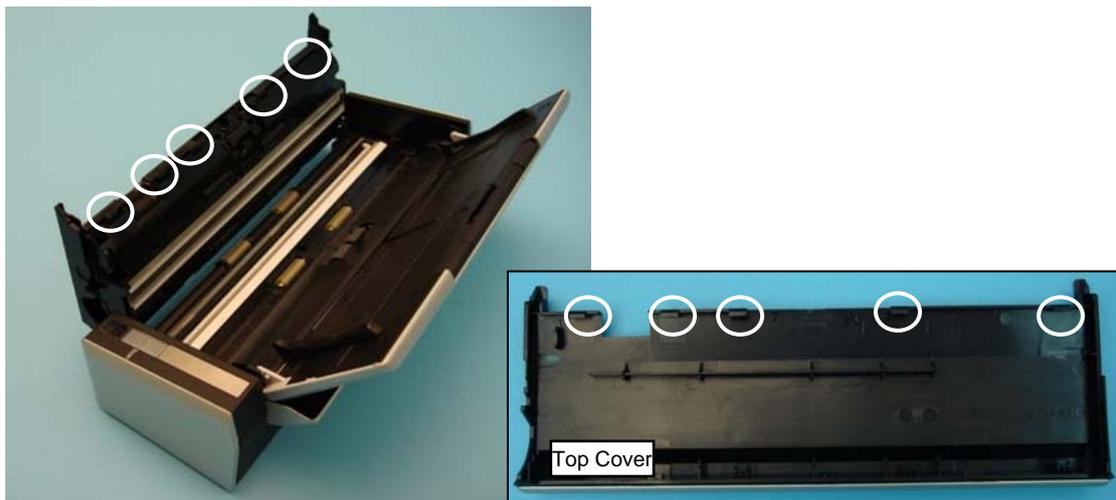
#### <Removal>

##### 1. Remove Top Cover.

- (1) Insert a small flat-blade screwdriver into the gap near two tabs (circled) at front side of the scanner on the Top cover. Tilting the screwdriver outward, unlatch the two tabs (circled).



- (2) Unlatch five tabs (circled) at upper side of the scanner on the Top cover, and lift the Top Cover upward.



#### <Installation>

Follow the above procedure in reverse order.

						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768	Refer to P2		
Rev.	Date	Desig.	Check	Appr.	Description		PFU LIMITED	Page 64 / 115
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu		

### 6.6.5 Front Cover

#### NOTICE

Refer to Section 4.2.5 for the part number of the Front Cover.

<Removal>

#### 1. Remove Revolve Unit.

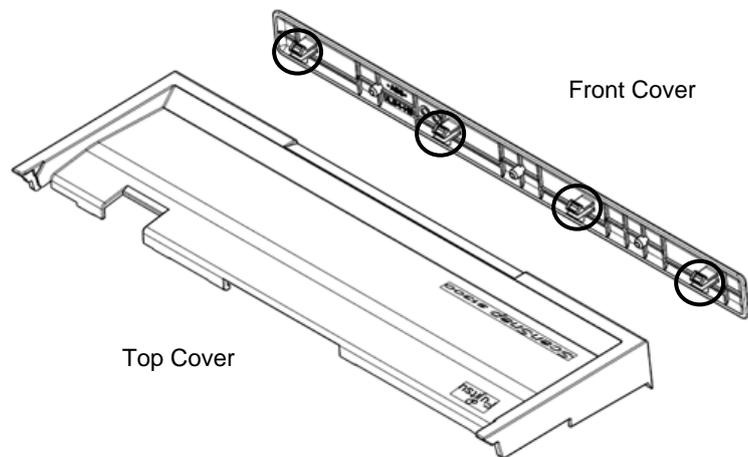
(1) Referring to Section 6.6.1 “Revolve Unit”, remove the Revolve Unit.

#### 2. Remove Top Cover.

(2) Referring to Section 6.6.4 “Top Cover”, remove the Top Cover.

#### 3. Remove Front Cover.

(3) Insert a small flat-blade screwdriver into the inside of the Top Cover to unlatch four latches (circled).



<Installation>

Follow the above procedure in reverse order.

						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768	Refer to P2		
Rev.	Date	Desig.	Check	Appr.	Description		PFU LIMITED	Page 65 / 115
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu		

## 6.7 Fixed Unit

### 6.7.1 Fixed Unit

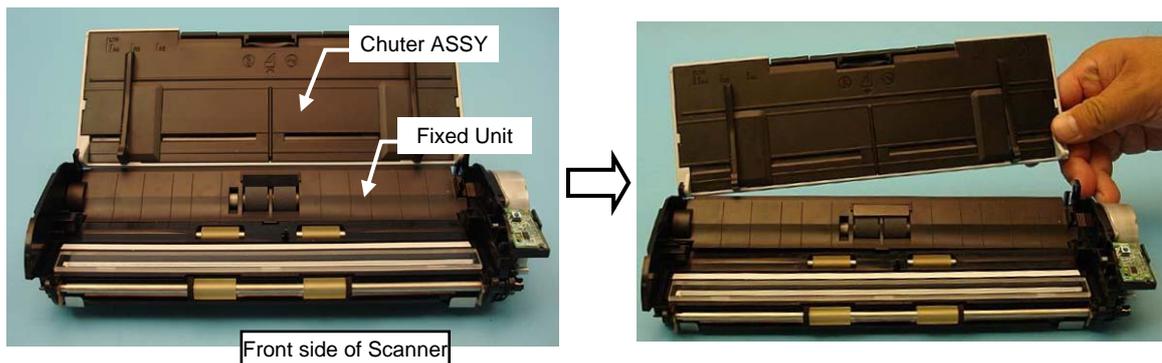
#### NOTICE

When disassembling, try not to touch the scanning glass to avoid dirt.  
Refer to Section 4.2.6 for the part number of the Fixed Unit.

<Removal>

#### 1. Remove Chuter ASSY.

- (1) Referring to Section 6.9.4 “Chuter ASSY”, remove the Chuter ASSY.



#### 2. Remove Revolve Unit.

- (2) Referring to Section 6.6.1 “Revolve Unit”, remove the Revolve Unit.

<Installation>

Follow the above procedure in reverse order.

#### NOTICE

- The Pick roller unit is included in the Fixed Unit. Referring to Section 8.3.2, reset the Pick roller count
- Referring to Section 7.6 “How to Adjust and Test the Image Quality”, perform the image adjustment.

						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768	Refer to P2		
Rev.	Date	Desig.	Check	Appr.	Description		PFU LIMITED	Page 66 / 115
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu		

### 6.7.2 CIS Unit F (for front side scanning)

#### NOTICE

When disassembling, try not to touch the scanning glass to avoid dirt.  
 Refer to Section 4.2.7 for the part number of the CIS Unit F.

<Removal>

**1. Remove Lid ASSY.**

(1) Referring to Section 6.9.2 “Lid ASSY”, remove the Lid ASSY.

**2. Remove CT PCA.**

(2) Referring to Section 6.8 “CT PCA”, remove the CT PCA.

**3. Remove Side Cover R ASSY.**

(3) Referring to Section 6.9.5 “Side Cover R ASSY”, remove the Side Cover R ASSY.

**4. Remove Side Cover L.**

(4) Referring to Section 6.9.6 “Side Cover L”, remove the Side Cover L.

**5. Remove Base Cover ASSY.**

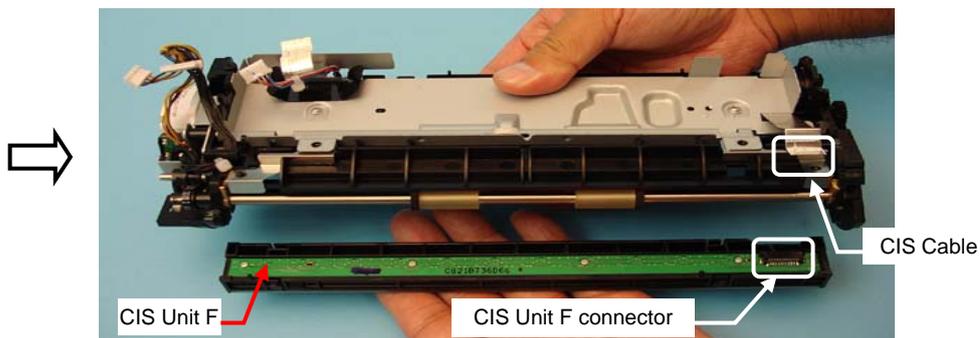
(5) Referring to steps (5) ~ (6) in Section 6.9.1 “Base Cover ASSY”, remove the Base Cover ASSY.

**6. Remove Guide A ASSY.**

(6) Referring to steps (6) ~ (7) in Section 6.9.3 “Guide A ASSY”, remove the Guide A ASSY.

**7. Remove CIS Unit F.**

(7) - Push four tabs (circled) on the CIS Unit F with a small flat-blade screwdriver toward inside of the scanner to unlatch.  
 - Remove the CIS Unit F, and then disconnect the CIS cable from the CIS Unit F connector (enclosed with square).



<Installation>

Follow the above procedure in reverse order.

#### NOTICE

Referring to Section 7.6 “How to Adjust and Test the Image Quality”, perform the image adjustment.

						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768	Refer to P2		
Rev.	Date	Desig.	Check	Appr.	Description		PFU LIMITED	Page 67 / 115
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu		

### 6.7.3 OP Panel

#### NOTICE

Refer to Section 4.2.8 for the part number of the OP Panel.

<Removal>

#### Save EEPROM data.

The OP Panel includes the EEPROM (Log data). Referring to Section 7.3 “How to Save EEPROM Data”, back up the EEPROM data on the computer before replacing the OP Panel.

#### 1. Remove CT PCA.

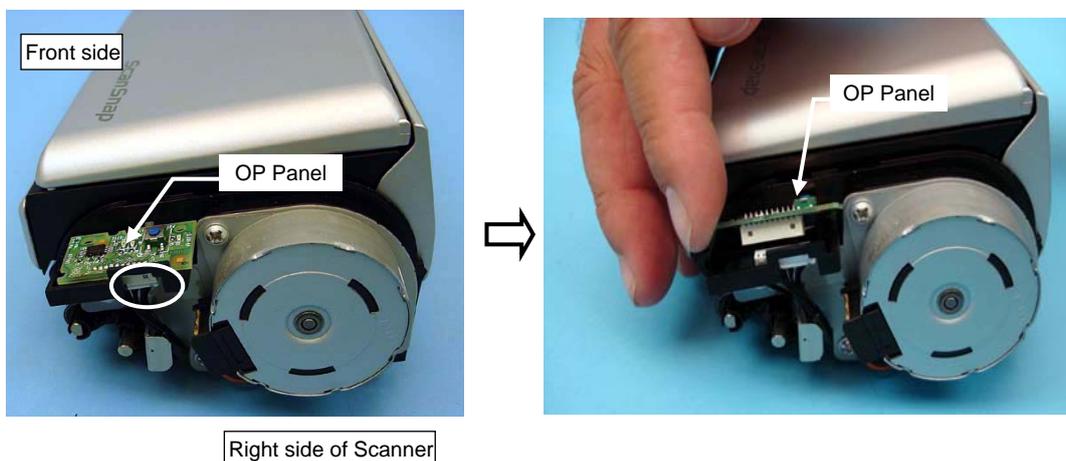
(1) Referring to Section 6.8 “CT PCA”, remove the CT PCA.

#### 2. Remove Side Cover R ASSY.

(2) Referring to Section 6.9.5 “Side Cover R ASSY”, remove the Side Cover R ASSY.

#### 3. Remove OP Panel.

(3) Disconnect the connector on the OP Panel (circled), and then remove the OP Panel.



<Installation>

Follow the above procedure in reverse order.

#### NOTICE

After replacement, perform the following operations:

- Referring to Section 7.4 “How to Restore the EEPROM Data”, restore the EEPROM data (Log data).
- Referring to Section 7.6 “How to Adjust and Test the Image Quality”, perform the image adjustment.

						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768	Referto P2		
Rev.	Date	Desig.	Check	Appr.	Description		PFU LIMITED	Page 68 / 115
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu		

### 6.7.4 Chuter SW Cable

#### NOTICE

Refer to Section 4.2.9 for the part number of the Chuter SW Cable.

<Removal>

**1. Remove Lid ASSY.**

(1) Referring to Section 6.9.2 “Lid ASSY”, remove the Lid ASSY.

**2. Remove CT PCA.**

(2) Referring to Section 6.8 “CT PCA”, remove the CT PCA.

**3. Remove Side Cover R ASSY.**

(3) Referring to Section 6.9.5 “Side Cover R ASSY”, remove the Side Cover R ASSY.

**4. Remove Side Cover L.**

(4) Referring to Section 6.9.6 “Side Cover L”, remove the Side Cover L.

**5. Remove Base Cover ASSY.**

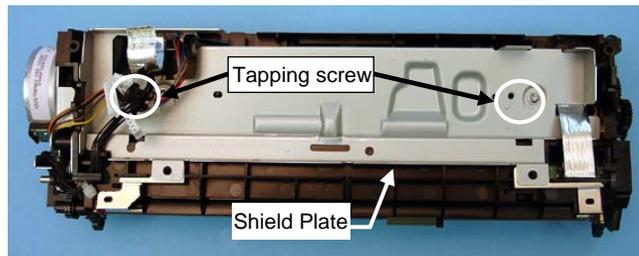
(5) Referring to steps (5) ~ (6) in Section 6.9.1 “Base Cover ASSY”, remove the Base Cover ASSY.

**6. Remove Guide A ASSY.**

(6) Referring to steps (6) ~ (7) in Section 6.9.3 “Guide A ASSY”, remove the Guide A ASSY.

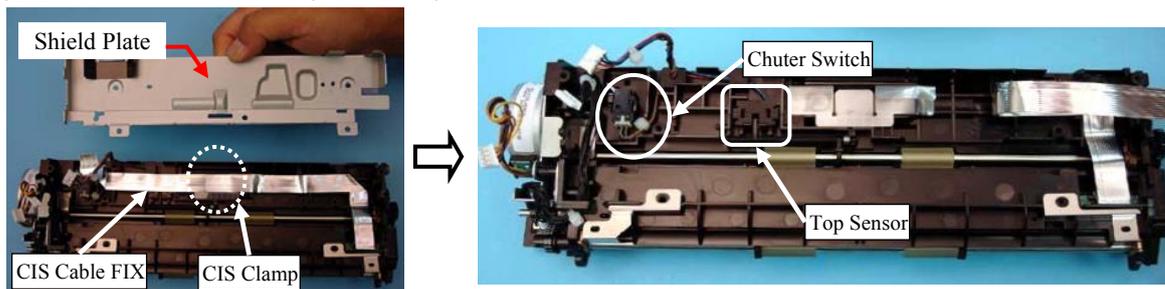
**2. Remove Chuter SW Cable.**

(7) Remove two tapping crews (circled) on the Shield plate.



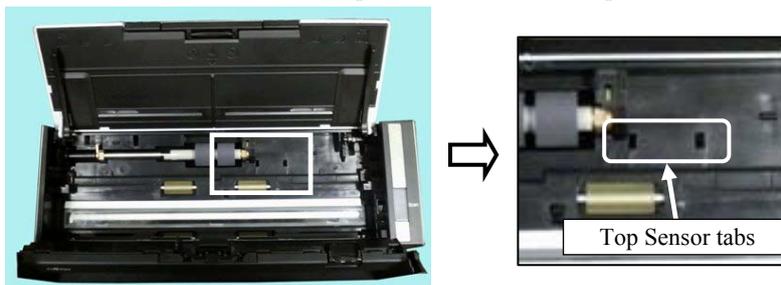
(8) Raising the Shield plate, remove the CIS cable FIX from the CIS clamp sheet (dot-circled).

(9) Remove the Chuter Switch (solid-circled).



						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768	Refarto P2		
Rev.	Date	Desig.	Check	Appr.	Description		PFU LIMITED	Page 69 / 115
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu		

- (10) Remove the Guide P ASSY and the tabs of Top sensor (enclosed with square), and then remove the Chuter SW Cable.

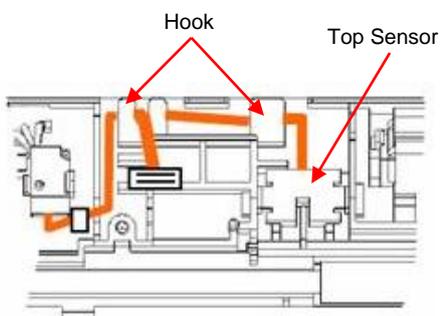


<Installation>

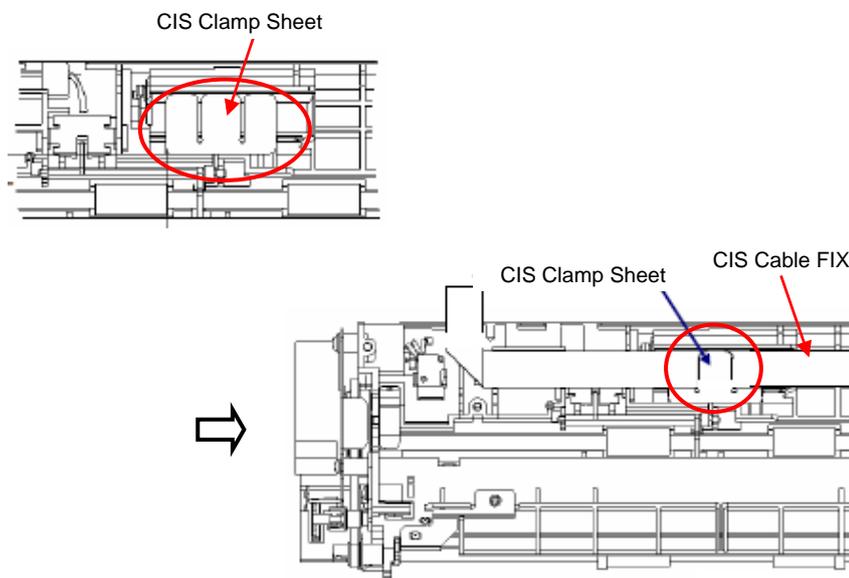
Follow the above procedure in reverse order.

**Chuter SW Cable**

- (1) Chuter SW Cable should be placed as shown in the picture below.



- (2) Attach the CIS cable FIX and CIS clamp sheet to the positions as shown below.



**NOTICE**

Referring to 7.6 “How to Adjust and Test the Image Quality”, perform the image adjustment.

						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768	Refar to P2		
Rev.	Date	Desig.	Check	Appr.	Description			
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu	PFU LIMITED	Page 70 / 115

## 6.7.5 Motor

### NOTICE

Refer to Section 4.2.10 for the part number of the Motor.

<Removal>

#### 1. Remove Lid ASSY.

(1) Referring to Section 6.9.2 “Lid ASSY”, remove the Lid ASSY.

#### 2. Remove CT PCA.

(2) Referring to Section 6.8 “CT PCA”, remove the CT PCA.

#### 3. Remove Side Cover R ASSY.

(3) Referring to Section 6.9.5 “Side Cover R ASSY”, remove the Side Cover R ASSY.

#### 4. Remove Side Cover L.

(4) Referring to Section 6.9.6 “Side Cover L”, remove the Side Cover L.

#### 5. Remove Base Cover ASSY.

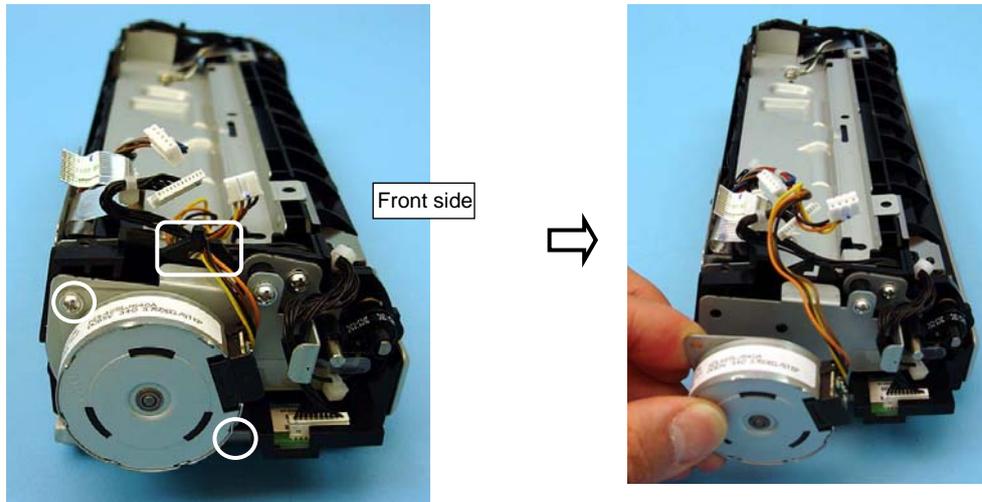
(5) Referring to steps (5) ~ (6) in Section 6.9.1 “Base Cover ASSY”, remove the Base Cover ASSY.

#### 6. Remove Guide A ASSY.

(6) Referring to steps (6) ~ (7) in Section 6.9.3 “Guide A ASSY”, remove the Guide A ASSY.

#### 7. Remove Motor.

- (1) - Remove two tapping screws (circled) on the Motor.  
 - Unhook the Motor cable (enclosed with square), and then remove the Motor.



<Installation>

Follow the above procedure in reverse order.

						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768	Refer to P2		
Rev.	Date	Desig.	Check	Appr.	Description		PFU LIMITED	Page 71 / 115
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu		

### 6.7.6 HK Ring

#### NOTICE

Refer to Section 4.2.11 for the part number of the HK Ring.

<Removal>

**1. Remove Lid ASSY.**

(1) Referring to Section 6.9.2 “Lid ASSY”, remove the Lid ASSY.

**2. Remove CT PCA.**

(2) Referring to Section 6.8 “CT PCA”, remove the CT PCA.

**3. Remove Side Cover R ASSY.**

(3) Referring to Section 6.9.5 “Side Cover R ASSY”, remove the Side Cover R ASSY.

**4. Remove Side Cover L.**

(4) Referring to Section 6.9.6 “Side Cover L”, remove the Side Cover L.

**5. Remove Base Cover ASSY.**

(5) Referring to steps (5) ~ (6) in Section 6.9.1 “Base Cover ASSY”, remove the Base Cover ASSY.

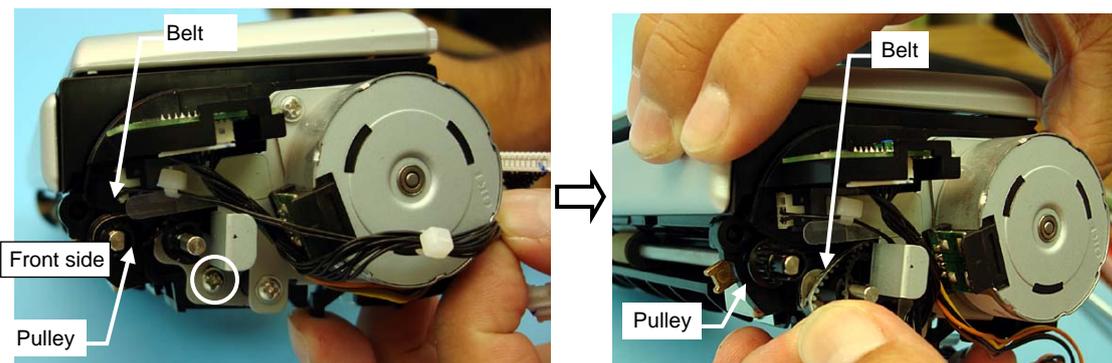
**6. Remove Guide A ASSY.**

(6) Referring to steps (6) ~ (7) in Section 6.9.3 “Guide A ASSY”, remove the Guide A ASSY.

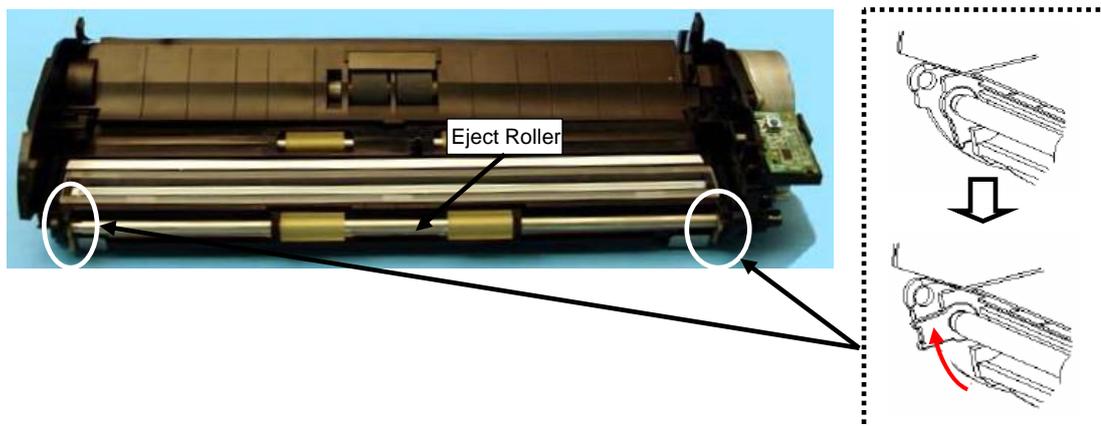
**7. Remove HK Ring.**

(7) Loosen a screw (circled) to loosen the belt tension.

(8) Remove the belt from the pulley.

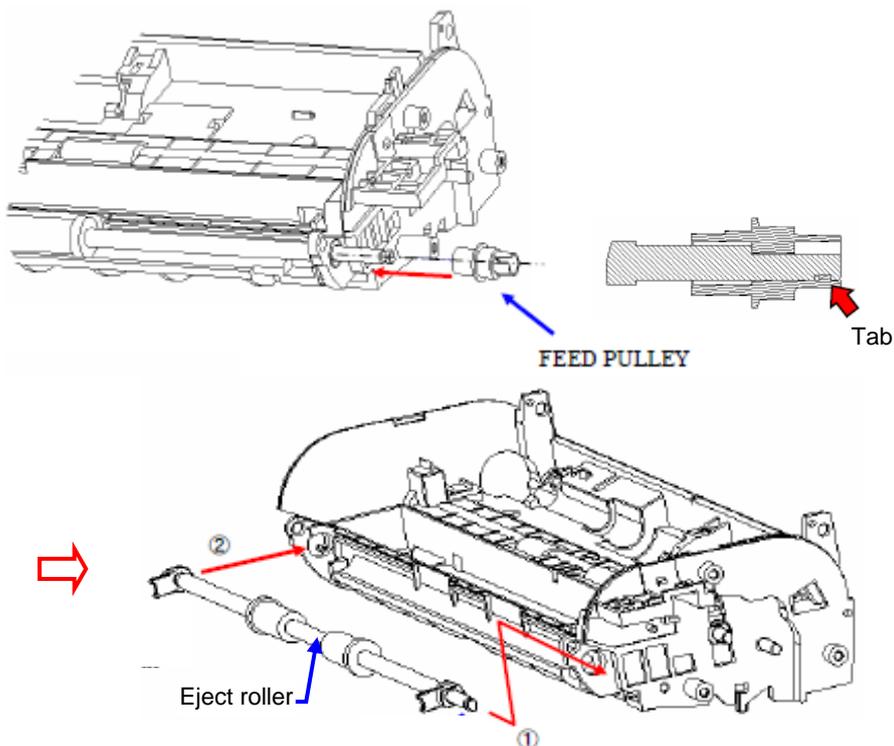


(9) Raise two bearings (circled) of the Eject roller toward the front of the scanner.

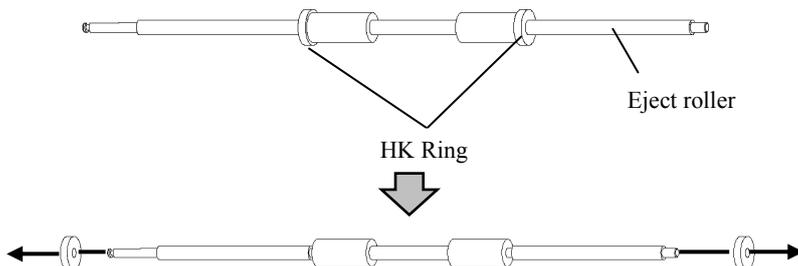


						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768	Referto P2		
Rev.	Date	Desig.	Check	Appr.	Description			
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu	PFU LIMITED	Page 72 / 115

(10) Unlatching the tab of the Feed Pulley, remove the Eject roller.



(11) Remove two HK Rings from the Eject roller.



<Installation>

Follow the above procedure in reverse order.

**NOTICE**

- Make sure that the tab of the Feed Pulley is securely latched.
- Referring to Section 7.6 “How to Adjust and Test the Image Quality”, perform the image adjustment.

						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768	Refer to P2		
Rev.	Date	Desig.	Check	Appr.	Description			
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu	PFU LIMITED	
							Page	73 / 115

### 6.7.7 Guide P ASSY

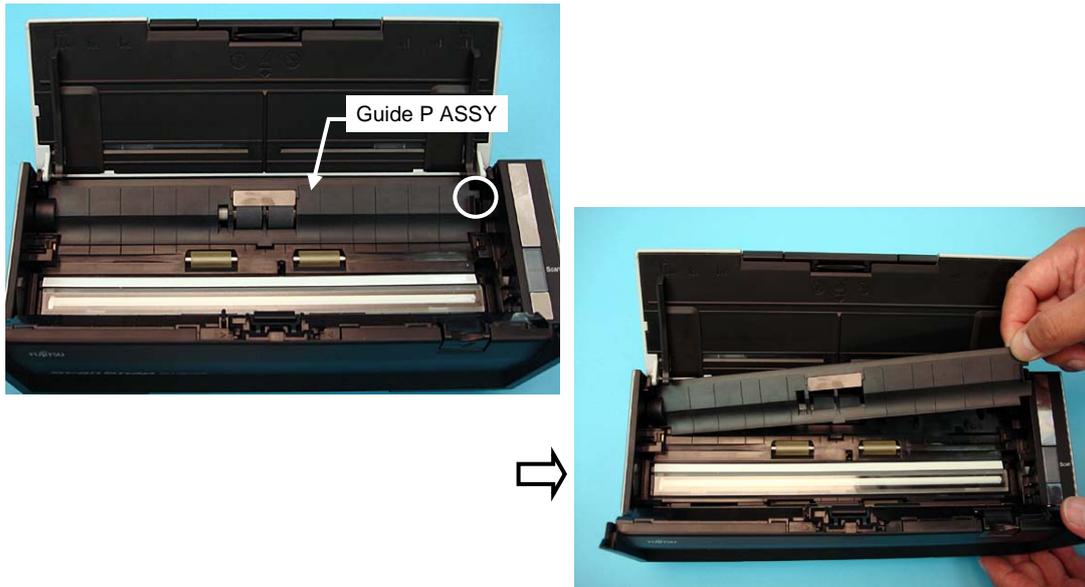
#### NOTICE

Refer to Section 4.2.12 for the part number of the Guide P ASSY.

<Removal>

#### I. Remove Guide P ASSY

- (1) - Open the Chuter ASSY.
- Open the Revolve Unit.
- Raise the tab (circled) on the right side of the Guide P ASSY to remove the Guide P ASSY.



<Installation>

Follow the above procedure in reverse order.

### 6.7.8 Pick Shaft Unit

#### NOTICE

Refer to Section 4.2.13 for the part number of the Pick Shaft Unit.

<Removal>

#### I. Remove Pick Shaft Unit

- (1) Referring to Section 8.3.4, remove the Pick Shaft Unit (Pick roller shaft).

<Installation>

Follow the above procedure in reverse order.

						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768	Refer to P2		
Rev.	Date	Desig.	Check	Appr.	Description		PFU LIMITED	Page 74 / 115
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu		

## 6.8 CT PCA

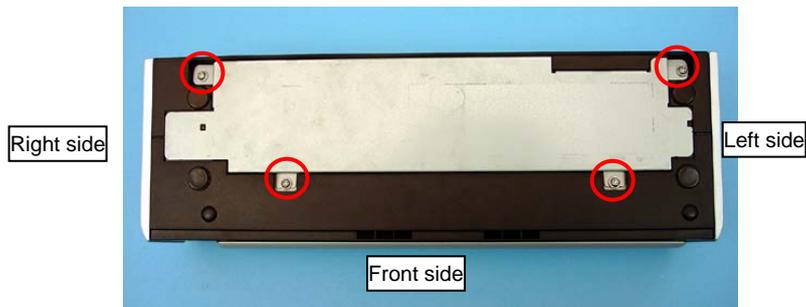
### NOTICE

Refer to Section 4.2.14 for the part number of the CT PCA.

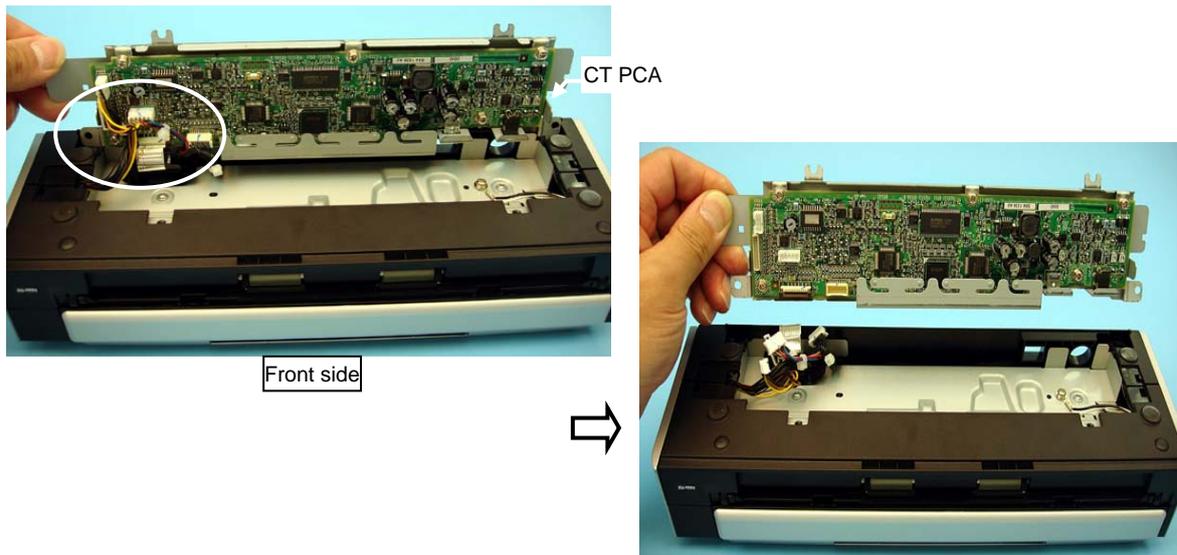
<Removal>

#### 1. Remove CT PCA.

- (1) Turn over the scanner, and remove four tapping screws (circles below) of the CT PCA.



- (2) Raising the CT PCA, disconnect five connectors (circled), and then remove the CT PCA.



- (3) Remove five screw on the CT PCA (circled), and remove the bracket.



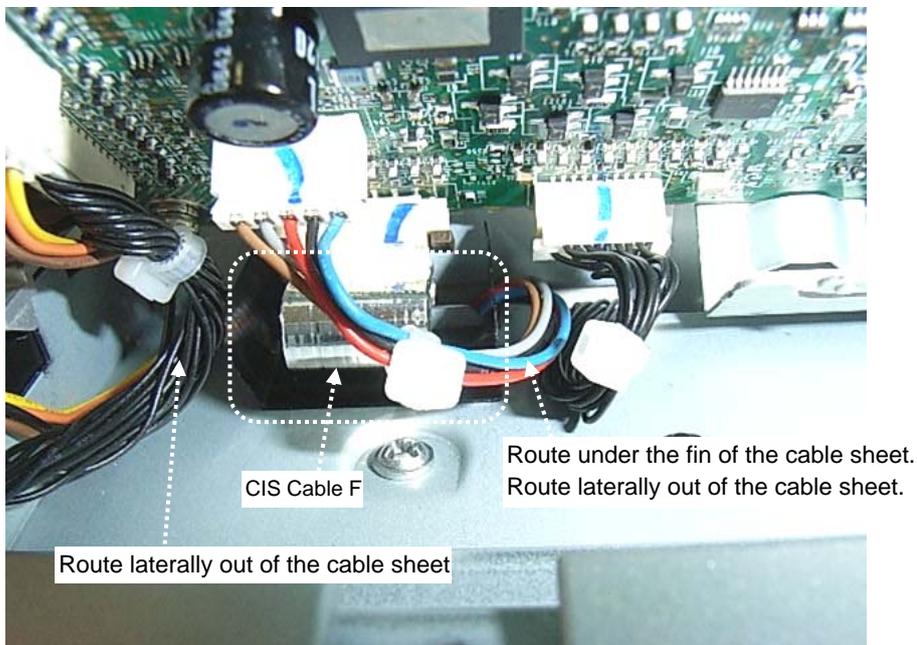
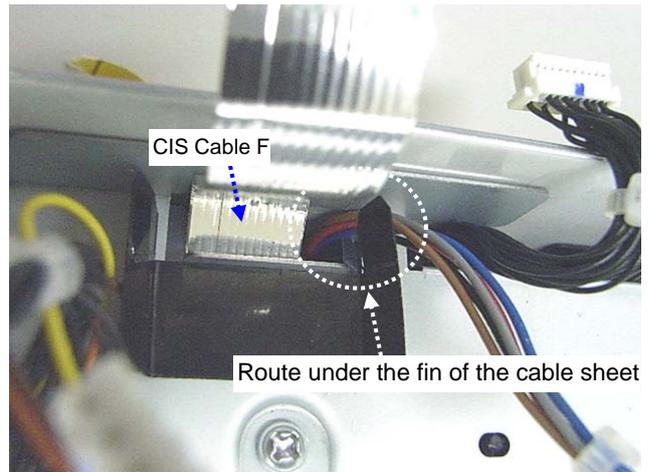
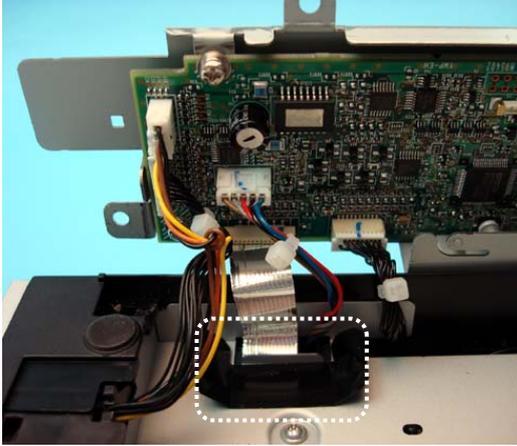
						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768 Referto P2			
Rev.	Date	Desig.	Check	Appr.	Description			
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu	PFU LIMITED	Page 75 / 115

<Installation>

Follow the above procedure in reverse order.

**NOTICE**

Insert the CIS CABLE F only into the cable sheet (enclosed with square, concave).  
Route the other cables laterally out of the cable sheet.



**NOTICE**

Do not get the cable caught in the CT PCA.

						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768 Refar to P2			
Rev.	Date	Desig.	Check	Appr.	Description			
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu	PFU LIMITED	Page 76 / 115

## 6.9 Outer Covers

### 6.9.1 Base Cover ASSY

#### NOTICE

Refer to Section 4.2.15 for the part number of the Base Cover ASSY.

<Removal>

#### 1. Remove Lid ASSY.

(1) Referring to Section 6.9.2 “Lid ASSY”, remove the Lid ASSY.

#### 2. Remove CT PCA.

(2) Referring to Section 6.8 “CT PCA”, remove the CT PCA.

#### 3. Remove Side Cover R ASSY.

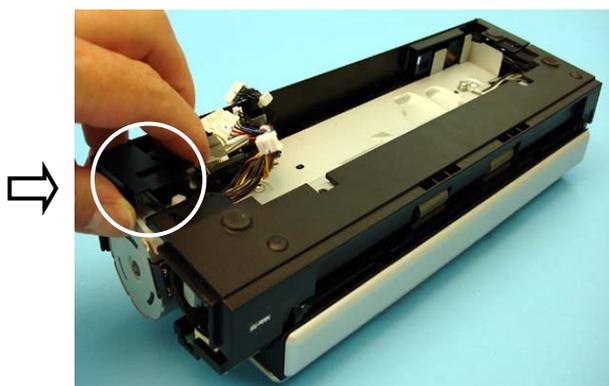
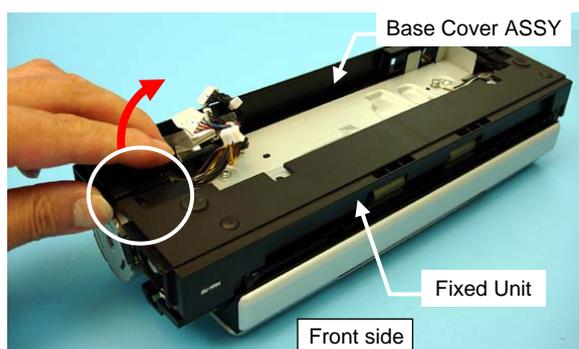
(3) Referring to Section 6.9.5 “Side Cover R ASSY”, remove the Side Cover R ASSY.

#### 4. Remove Side Cover L.

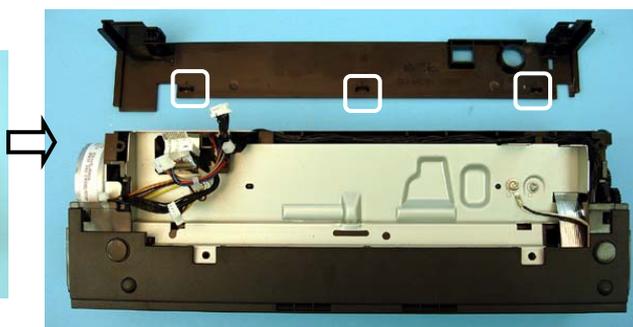
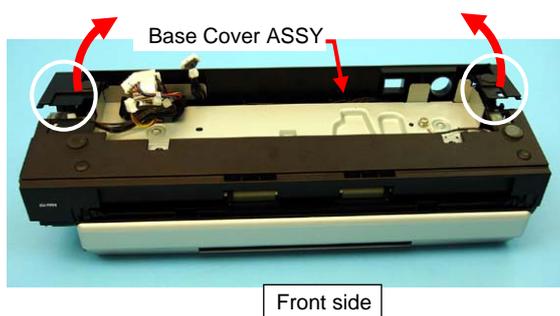
(4) Referring to Section 6.9.6 “Side Cover L”, remove the Side Cover L.

#### 5. Remove Base Cover ASSY.

(2) Raising one side of the Base Cover ASSY (circled) to remove from the Fixed Unit. In the same way, raise and remove the other side from the Fixed Unit.



(3) Lifting up both sides (circled) of the Base Cover ASSY, push down the Base Cover ASSY toward rear of the scanner, and then unlatch three tabs (enclosed with squares) of the Base Cover ASSY.



<Installation>

Follow the above procedure in reverse order.

						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768 Referto P2			
Rev.	Date	Desig.	Check	Appr.	Description			
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu	PFU LIMITED	Page 77 / 115

### 6.9.2 Lid ASSY

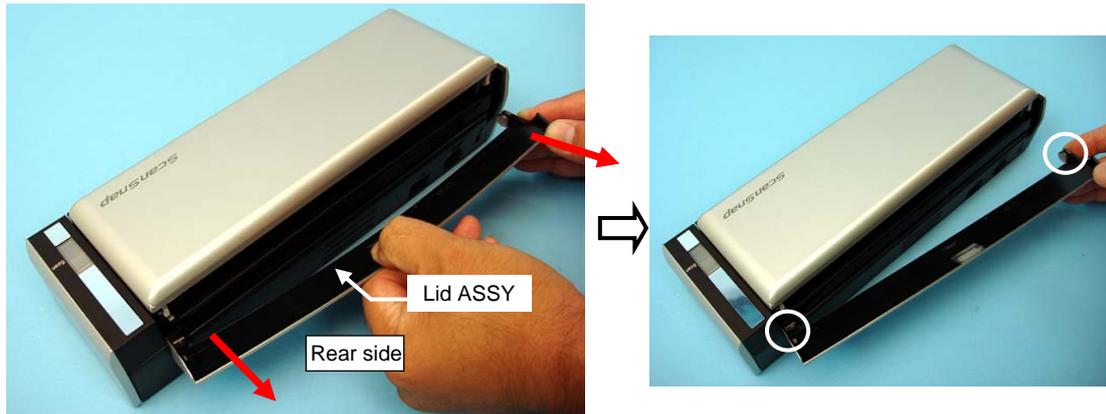
#### NOTICE

Refer to Section 4.2.16 for the part number of the Lid ASSY.

#### <Removal>

##### I. Remove Lid ASSY.

- (1) - Open the Lid ASSY.
- Pulling the Lid ASSY toward rear of the scanner, remove the pins (circled) at both sides of the Lid ASSY, and then remove the Lid ASSY.



#### <Installation>

Follow the above procedure in reverse order.

						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768	Refarto P2		
Rev.	Date	Desig.	Check	Appr.	Description		PFU LIMITED	Page 78 / 115
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu		

### 6.9.3 Guide A ASSY

#### NOTICE

Refer to Section 4.2.17 for the part number of the Guide A ASSY.

<Removal>

#### 1. Remove Lid ASSY.

(1) Referring to Section 6.9.2 “Lid ASSY”, remove the Lid ASSY.

#### 2. Remove CT PCA.

(2) Referring to Section 6.8 “CT PCA”, remove the CT PCA.

#### 3. Remove Side Cover R ASSY.

(3) Referring to Section 6.9.5 “Side Cover R ASSY”, remove the Side Cover R ASSY.

#### 4. Remove Side Cover L.

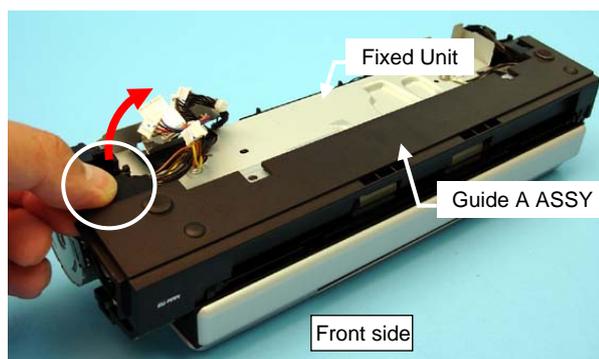
(4) Referring to Section 6.9.6 “Side Cover L”, remove the Side Cover L.

#### 5. Remove Base Cover ASSY.

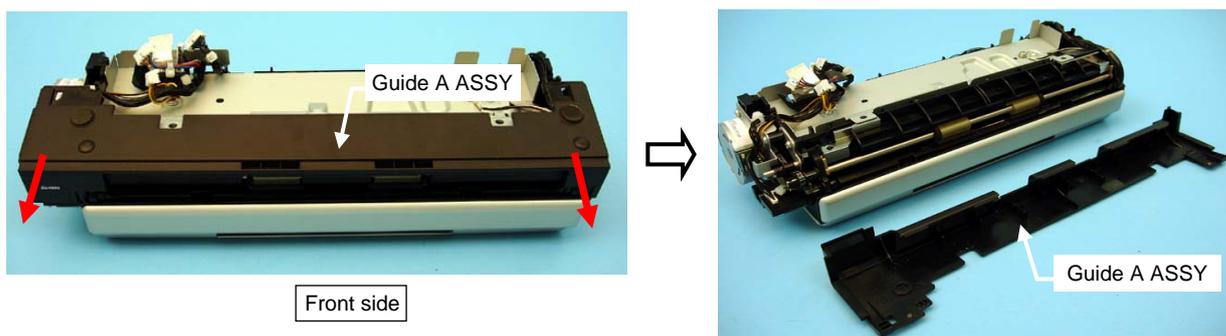
(5) Referring to steps (5) ~ (6) in Section 6.9.1 “Base Cover ASSY”, remove the Base Cover ASSY.

#### 6. Remove Guide A ASSY.

(2) Raising one side of Guide A ASSY (circled) to remove from the Fixed Unit. In the same way, remove the other side from the Fixed Unit.



(3) Pull out the Guide A ASSY toward front side of the scanner, and then remove Guide A ASSY.



<Installation>

Follow the above procedure in reverse order.

						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768	Referto P2		
Rev.	Date	Desig.	Check	Appr.	Description		PFU LIMITED	Page 79 / 115
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu		

6.9.4 Chuter ASSY

**NOTICE**

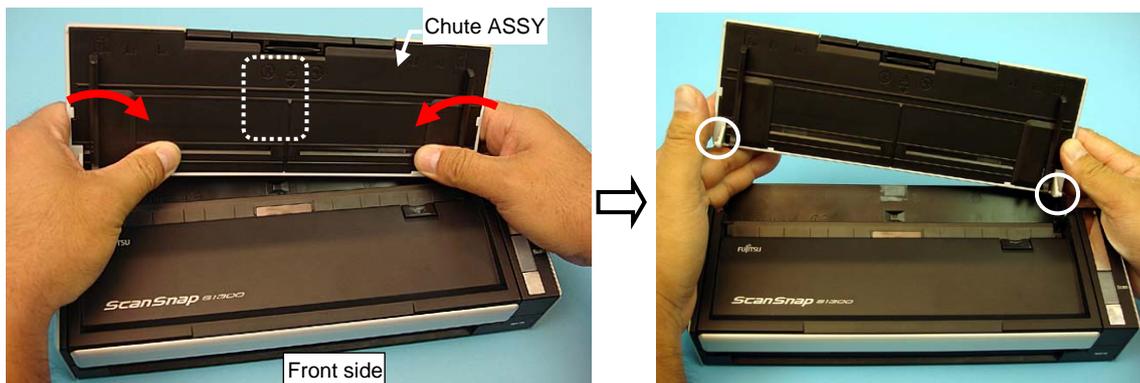
Refer to Section 4.2.18 for the part number of the Chuter ASSY.

<Removal>

1. Remove Chuter ASSY.

(1) - Open the Chuter ASSY.

- Bending the center of the Chuter ASSY (enclosed with square), remove two pins (circled) on the Chuter ASSY, and then remove the Chuter ASSY.



<Installation>

Follow the above procedure in reverse order.

						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768	Refer to P2		
Rev.	Date	Desig.	Check	Appr.	Description		PFU LIMITED	Page 80 / 115
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu		

### 6.9.5 Side Cover R ASSY

#### NOTICE

Refer to Section 4.2.19 for the part number of the Side Cover R ASSY.

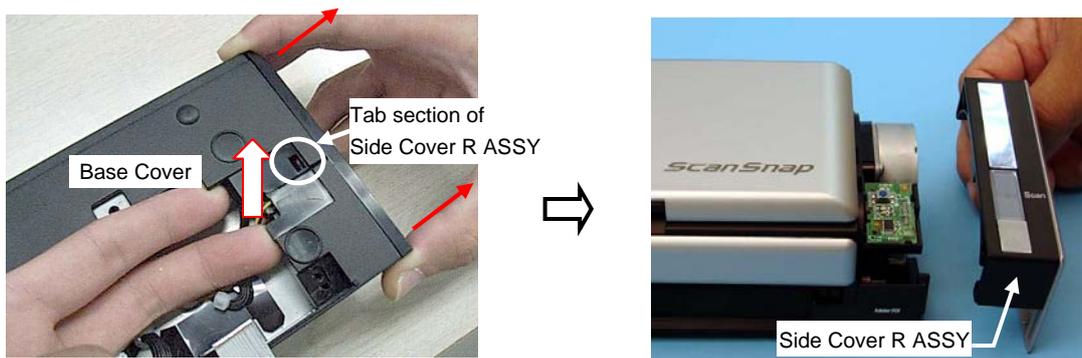
<Removal>

#### 1. Remove CT PCA.

- (1) Referring to steps (1) ~ (2) in Section 6.8 “CT PCA”, remove the CT PCA.

#### 2. Remove Side Cover R ASSY.

- (2) Raising the Base Cover, unlatch the tab section which connects the Base Cover and Side Cover R ASSY to separate them.



<Installation>

Follow the above procedure in reverse order.

### 6.9.6 Side Cover L

#### NOTICE

Refer to Section 4.2.20 for the part number of the Side Cover L.

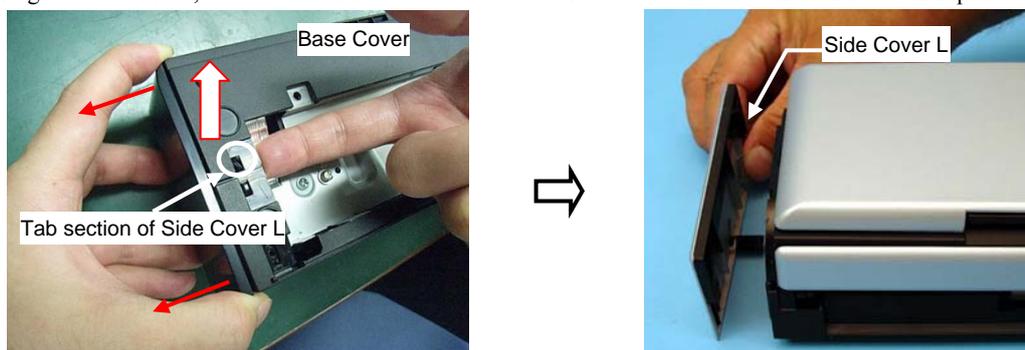
<Removal>

#### 1. Remove CT PCA.

- (1) Referring to steps (1) ~ (2) of Section 6.8 “CT PCA”, remove CT PCA.

#### 2. Remove Side Cover L.

- (2) Raising the Base Cover, unlatch the tab section which connects the Base Cover and Side Cover L to separate them.



<Installation>

Follow the above procedure in reverse order.

						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768 Referto P2			
Rev.	Date	Desig.	Check	Appr.	Description			
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu	PFU LIMITED	Page 81 / 115

## Chapter 7 Test Program

Two types of Test Programs are provided for this scanner.

- 1) S300/S1300 EEPROM Maintenance Tool (S300E2pLog V03L01 or later)

\* V03L01 or later supports S1300i.

This tool backs up the Log data in the EEPROM to this tool, and also restores the EEPROM data onto the new OP Panel. This program is also used to refer to EEPROM information.

- 2) Adjustment Tool (hereinafter called "TP-TOWER")

This program is provided for Adjustment of the image and Troubleshooting (refer to Chapter 4).

### 7.1 System Environment of Test Program

Host	: Pentium 3, 1.0 GHz (Recommended: Pentium 4, 1.8 GHz or more)
Memory	: 512 MB or more (786 MB or more is recommended)
Disk space	: 400 MB or more of free space (*1)
Display	: 1024 x 768 dot or more
USB port	: USB 2.0 (mandatory)
DVD-ROM drive	: Necessary for driver installation
OS	: Windows 2000 / Windows XP / Vista (32-bit)
	* TWAIN-WIA driver does not operate in Windows 2000.
	* The test programs do not operate in a 64-bit OS.
Driver	: ScanSnap Manager V5.1 or later

- \*1 The Test program files are assumed to be copied to the HDD. If they are copied to a different memory drive, an error may occur due to shortage of memory.

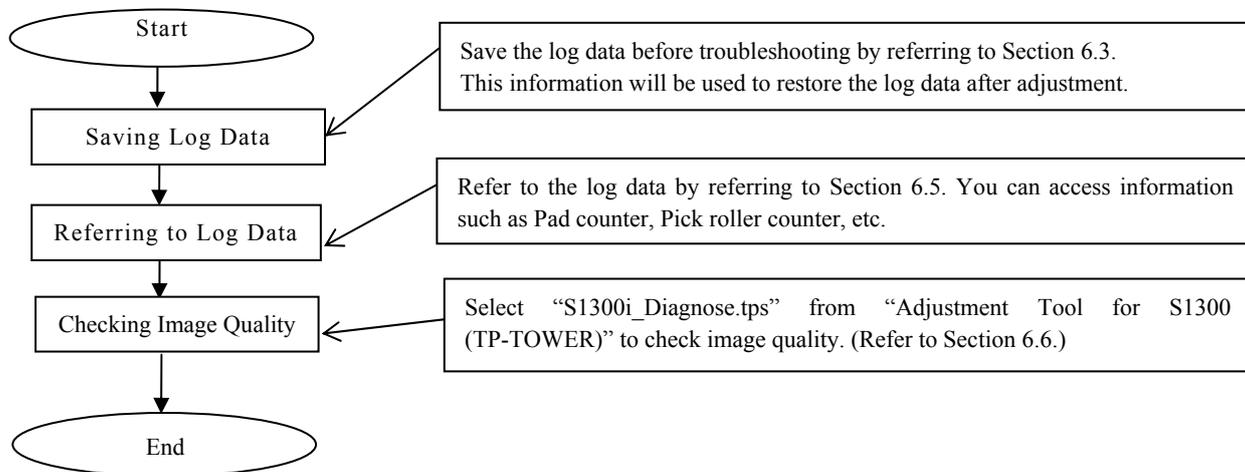
						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768	Refer to P2		
Rev.	Date	Desig.	Check	Appr.	Description		PFU LIMITED	Page 82 / 115
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu		

## 7.2 Work Flow of Unit Inspection and Unit Repair

The workflows when using the Test program are as follows:

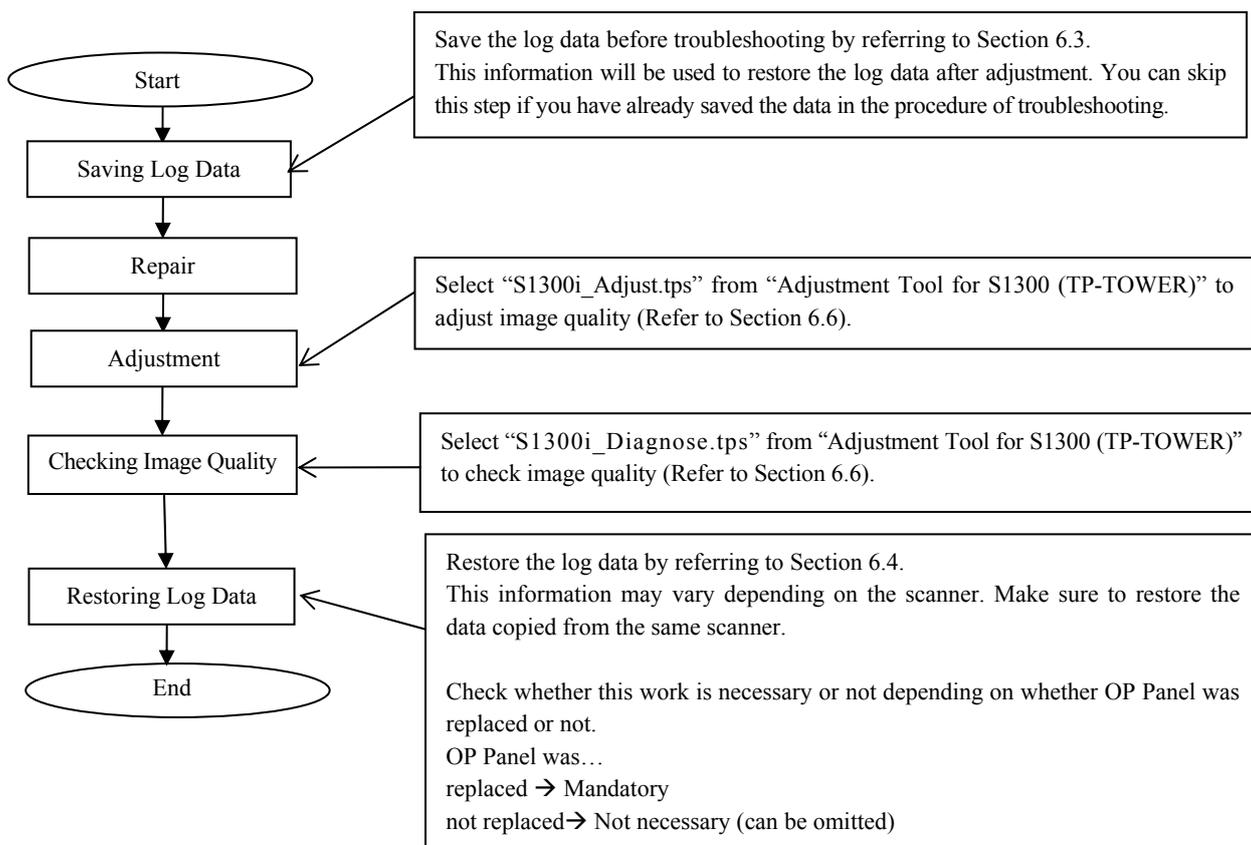
### (1) Troubleshooting

The following shows a procedure for checking the scanner Image Quality before the scanner is repaired.



### (2) Adjustment

The following shows a procedure for adjusting the repaired scanner and checking its Image Quality.

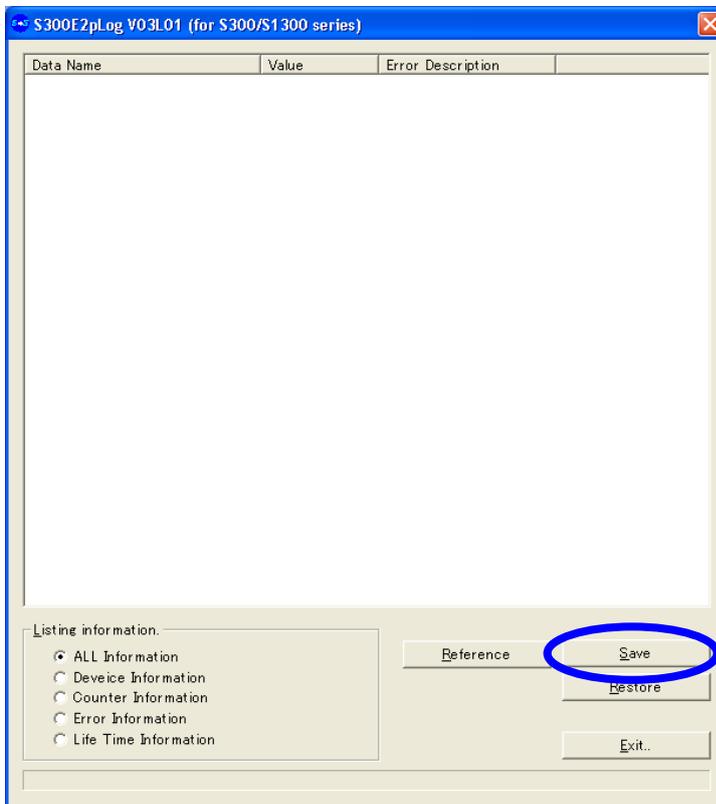


						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768	Refer to P2		
Rev.	Date	Desig.	Check	Appr.	Description		PFU LIMITED	Page 83 / 115
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu		

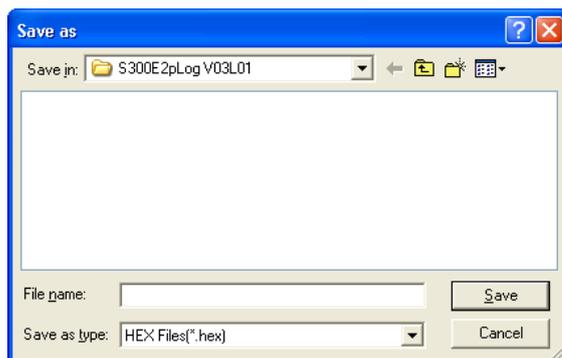
### 7.3 How to Save EEPROM Data

This section describes how to back up the EEPROM data stored in the OP Panel and save it temporarily to the computer. This procedure is required before OP Panel replacement.

- 1) Activate "S300E2pLog.exe".
- 2) Click the [Save] button.



- 3) Specify the file name and click the [Save] button. The EEPROM data is saved in the specified file, and the message in step (4) appears.



#### NOTICE

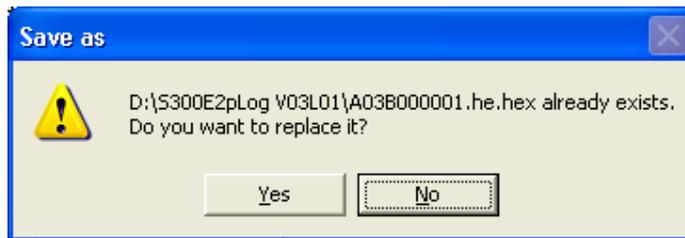
1. It is recommended to use the Serial Number of the scanner that is being repaired as the file name.
2. The Log data is saved in the Test program folder. Be careful not to delete it.
3. If you specify an existing file name, the warning message asking you whether the data shall be over-written or not is displayed. The EEPROM data is very important, so the message will appear several times to prevent the data from being overwritten by mistake. Respond properly to the message as shown in the following flow chart.

						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768	Refar to P2		
Rev.	Date	Desig.	Check	Appr.	Description			
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu	PFU LIMITED	
							Page	84 / 115

**When you have specified an existing file name:**

First warning appears (only when you have specified the existing file name).

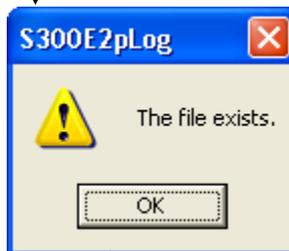
Returns to the screen on step (3).



Click

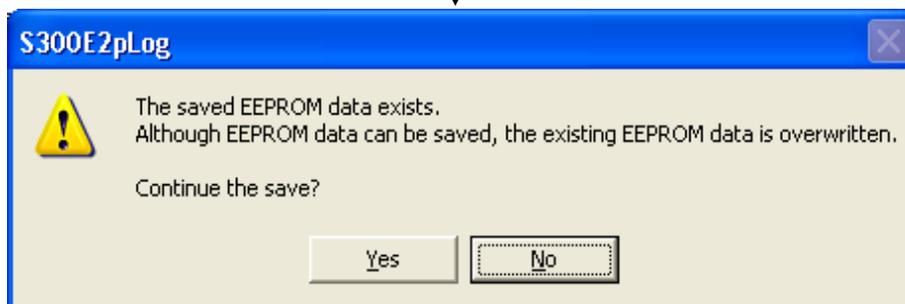
Click

Second warning appears (only when you have specified the existing file name).



Click

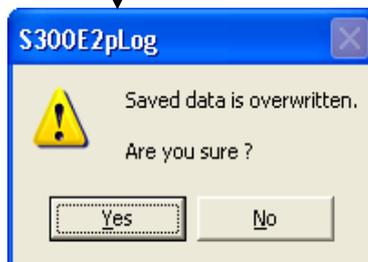
Third warning appears (only when you have specified the existing file name).



Click

Click

Forth warning appears (only when you have specified the existing file name).



Click

Click

The log data is overwritten.

4) Completes EEPROM data restoration.



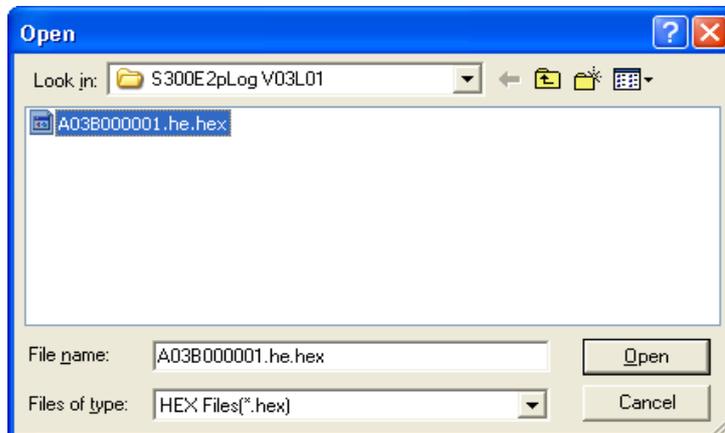
The EEPROM data has been saved when this dialog box appears. Click the [OK] button.

						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768	Refarto P2		
Rev.	Date	Desig.	Check	Appr.	Description			
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu	PFU LIMITED	
							Page	85 / 115

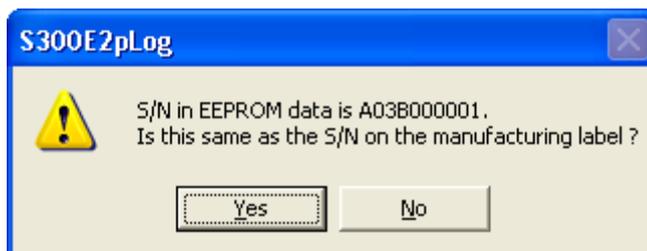
## 7.4 How to Restore the EEPROM Data

This section describes how to restore the EEPROM data that has been saved to the computer temporarily onto the new OP Panel.

- 1) Activate "S300E2pLog.exe".
- 2) Click the [Restore] button.
- 3) Specify the file (EEPROM data) to restore, and then click the [Open] button.

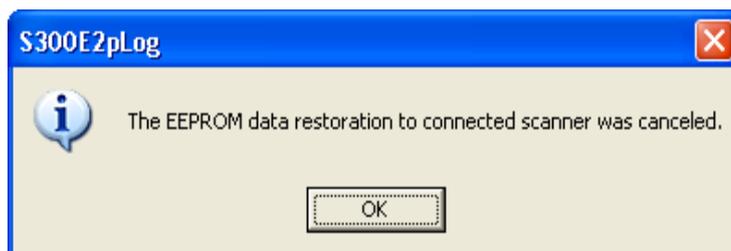


- 4) The screen below will appear to confirm whether the serial number of the EEPROM data and that of the actual scanner are identical.

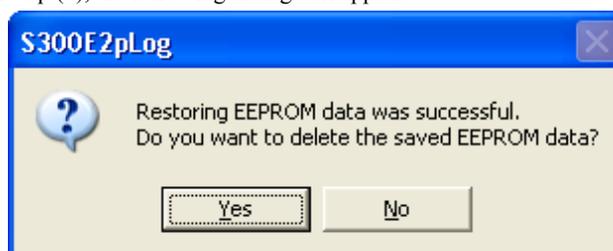


Make sure that the serial numbers on the EEPROM data and the manufacturing label are the same, and then click [Yes]. If they are not identical, click [No].

- 5) If you clicked [No] in step (4), the following dialog box appears. Click the [OK] button.



If you clicked [Yes] in step (4), the following dialog box appears.



If you click [Yes] button on this dialog box, the file specified in step (3) will be deleted.  
If you click [No], the file specified in step (3) will not be deleted.

						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768	Refer to P2		
Rev.	Date	Desig.	Check	Appr.	Description			
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu	PFU LIMITED	Page 86 / 115

### \* **Footnote: Configuring data restoration method**

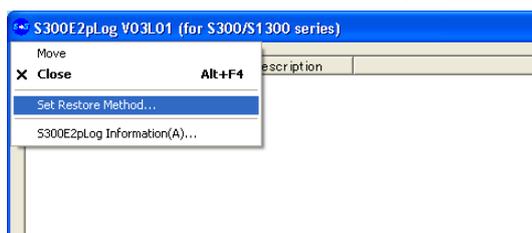
You can select data restoration method regarding the following four types of data.

The default setting for this tool is “Don’t restore”. The information below is NOT necessary to restore at regular maintenance.

- User Firmware Revision
- Past Error Code
- Past Error (Equipment Error)
- Past Error (Temporary Error)

Configuring method is described below.

1) Click the icon on the title bar on the Main screen, and then select [Set Restore Method...].



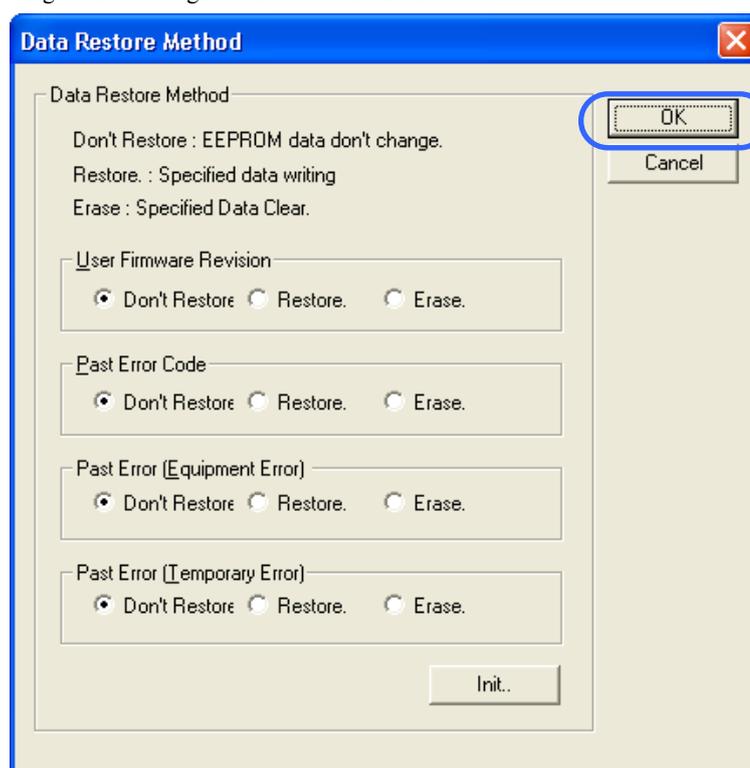
2) Select restoration method for each item, and then click the [OK] button.

Don't Restore: EEPROM value will not be changed. (Default setting on this tool)

Restore: The data in the file to be restored will be written in the EEPROM.

Erase: All data will be cleared.

Init.: All settings will be brought back to default “Don’t Restore”.



### NOTICE

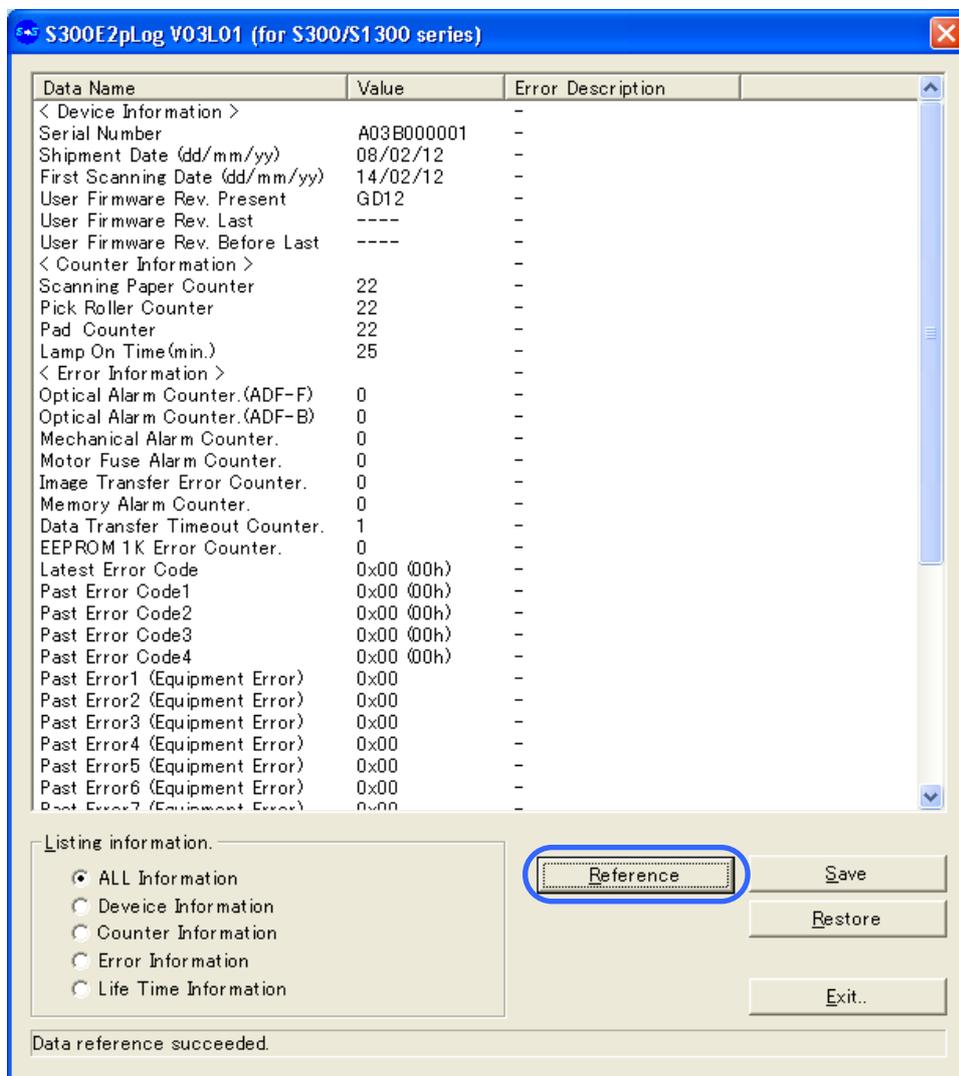
If the restoration method is changed, the new setting is taken over until the setting is changed again.

						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768	Refar to P2		
Rev.	Date	Desig.	Check	Appr.	Description			
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu	PFU LIMITED	Page 87 / 115

### 7.5 How to Refer to the EEPROM Data

The following explains how to refer to the EEPROM data.

- 1) Activate "S300E2pLog.exe".
- 2) Click the [Reference] button.
- 3) Log data appears as a list display.



						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768	Refarto P2		
Rev.	Date	Desig.	Check	Appr.	Description			
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu	PFU LIMITED	
							Page	88 / 115

The contents of the items are as follows:

#### < Device Information >

<b>Serial Number</b>	Scanner serial number
<b>Shipment Date (dd/mm/yy)</b>	Date on which the scanner test was completed in the factory
<b>First Scanning Date (dd/mm/yy)</b>	The first date on which the user used the scanner.
<b>User Firmware Rev. Present</b>	Displays user's firmware version history.
<b>User Firmware Rev. Last</b>	When new firmware is downloaded, the "User Firmware Rev. Before Last" is discarded and the user firmware versions are rememorized as follows:
<b>User Firmware Rev. Before Last</b>	Before Last ← Last Last ← Present Present ← New firmware version

#### < Counter Information >

<b>Scanning Paper Counter</b>	Displays the number of sheets that have been scanned in the life of the scanner.
<b>Pick Roller Counter</b>	Displays how many documents have been scanned since the Pick roller counter was reset using the ScanSnap Manager.
<b>Pad Counter</b>	Displays how many documents have been scanned since the Pad counter was reset using the ScanSnap Manager.
<b>Lamp On Time(min.)</b>	Displays how long the LED lamp on the CIS lights.

#### < Error Information >

<b>Optical Alarm Counter.(ADF-F)</b>	Displays the number of CIS unit errors for front side scanning.
<b>Optical Alarm Counter.(ADF-B)</b>	Displays the number of CIS unit errors for backside scanning.
<b>Mechanical Alarm Counter.</b>	Displays the number of paper feeding unit errors.
<b>Motor Fuse Alarm Counter.</b>	Displays the number of motor fuse errors.
<b>Image Transfer Error Counter.</b>	Displays the number of image transfer errors.
<b>Memory Alarm Counter.</b>	Displays the number of memory errors.
<b>Data Transfer Timeout Counter.</b>	Displays the number of data transfer timeouts.
<b>EEPROM 1K Error Counter</b>	Displays the number of EEPROM 1K errors.
<b>Latest Error Code</b>	Displays error code history. When an equipment error or temporary error occurs,
<b>Past Error Code1</b>	the "Past Error Code 4" is discarded and the past error codes are rememorized as follows. Refer to the Error code list on next page for details.
<b>Past Error Code2</b>	Past Error Code 4 ← Past Error Code 3
<b>Past Error Code3</b>	Past Error Code 3 ← Past Error Code 2
<b>Past Error Code4</b>	Past Error Code 2 ← Past Error Code 1 Past Error Code 1 ← Latest Error Code Latest Error Code ← New error code
<b>Past Error1 (Equipment Error)</b>	Equipment error history.
<b>Past Error2 (Equipment Error)</b>	When an equipment error occurs, the "Past Error8" is discarded and Past Errors 1~8
<b>Past Error3 (Equipment Error)</b>	are rememorized as follows. Refer to the Error code list on next page for details.
<b>Past Error4 (Equipment Error)</b>	Past Error 8 ← Past Error 7
<b>Past Error5 (Equipment Error)</b>	Past Error 7 ← Past Error 6
<b>Past Error6 (Equipment Error)</b>	Past Error 6 ← Past Error 5
<b>Past Error7 (Equipment Error)</b>	Past Error 5 ← Past Error 4
<b>Past Error8 (Equipment Error)</b>	Past Error 4 ← Past Error 3 Past Error 3 ← Past Error 2 Past Error 2 ← Past Error 1 Past Error 1 ← New error code
<b>Past Error1 (Temporary Error)</b>	Temporary error history.
<b>Past Error2 (Temporary Error)</b>	When a temporary error occurs, the "Past Error8" is discarded and Past Errors 1~8
<b>Past Error3 (Temporary Error)</b>	are rememorized as follows. Refer to the Error code list on next page for details.
<b>Past Error4 (Temporary Error)</b>	Past Error 8 ← Past Error 7
<b>Past Error5 (Temporary Error)</b>	Past Error 7 ← Past Error 6
<b>Past Error6 (Temporary Error)</b>	Past Error 6 ← Past Error 5
<b>Past Error7 (Temporary Error)</b>	Past Error 5 ← Past Error 4
<b>Past Error8 (Temporary Error)</b>	Past Error 4 ← Past Error 3 Past Error 3 ← Past Error 2 Past Error 2 ← Past Error 1 Past Error 1 ← New error code

						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768	Refarto P2		
Rev.	Date	Desig.	Check	Appr.	Description			
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu	PFU LIMITED	
							Page	89 / 115

## &lt; Life Time Information &gt;

<b>TOP cover open count</b>	Displays how many times the top cover has been opened.
<b>Lamp(LED) lighting time</b>	Displays the total time that the LED has been on.
<b>CHUTER close count</b>	Displays how many times the chute has been closed.
<b>Scan SW operation count</b>	Displays how many times the Scan switch has been pressed.

**Error Code List**

Error category	Error code	Error description	Remarks
Initial diagnosis error	0x11	RAM alarm	Loop down
	0x16	γRAM alarm	Loop down
	0x17	EEPROM alarm	3 cycle display
	0x18	USB Controller alarm	3 cycle display
Operation error	0x20	Command sequence alarm	
	0x21	Undefined command specification	
	0x22	Parameter alarm	
Temporary error	0x40	ATN ON	(Operating)
	0x41	Jam	
	0x42	Hopper empty	
	0x43	Miss-Picking	
	0x44	Cover open	
	0x45	Multifeed	
	0x46	Trailing edge detection error	
	0x47	Chute closed during scanning	(Power discontinuity)
Equipment error	0x81	Running alarm	
	0x82	Optical alarm (Front)	
	0x83	Image transfer error	
	0x84	Memory alarm	
	0x85	EEPROM alarm	OP Panel (4K)
	0x8A	Motor alarm (timeout error due to waiting of halt)	
	0x8B	Data transfer error (Timeout error)	
	0x8C	Optical alarm (Back)	
	0x8D	USB Controller alarm	

- Example of "Past Error Code":

0x00 (00h): No error occurred in the past

0x43 (01h): Miss-picking

\* Data in parentheses "("") are reference value for firmware analysis.

- Example of "Past Error (Equipment error)" and "Past Error (Temporary error)":

0x00: No error history

0x43 (0A00): Miss-picking when firmware version is "0A00"

						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768	Refarto P2		
Rev.	Date	Desig.	Check	Appr.	Description		PFU LIMITED	Page 90 / 115
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu		

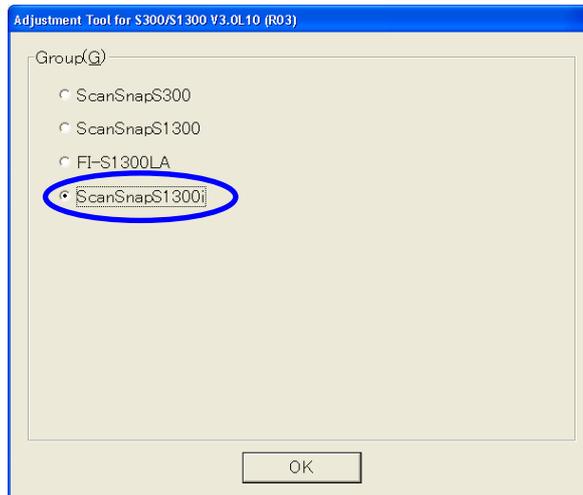
## 7.6 How to Adjust and Test the Image Quality

The following explains how to adjust and check the image quality.

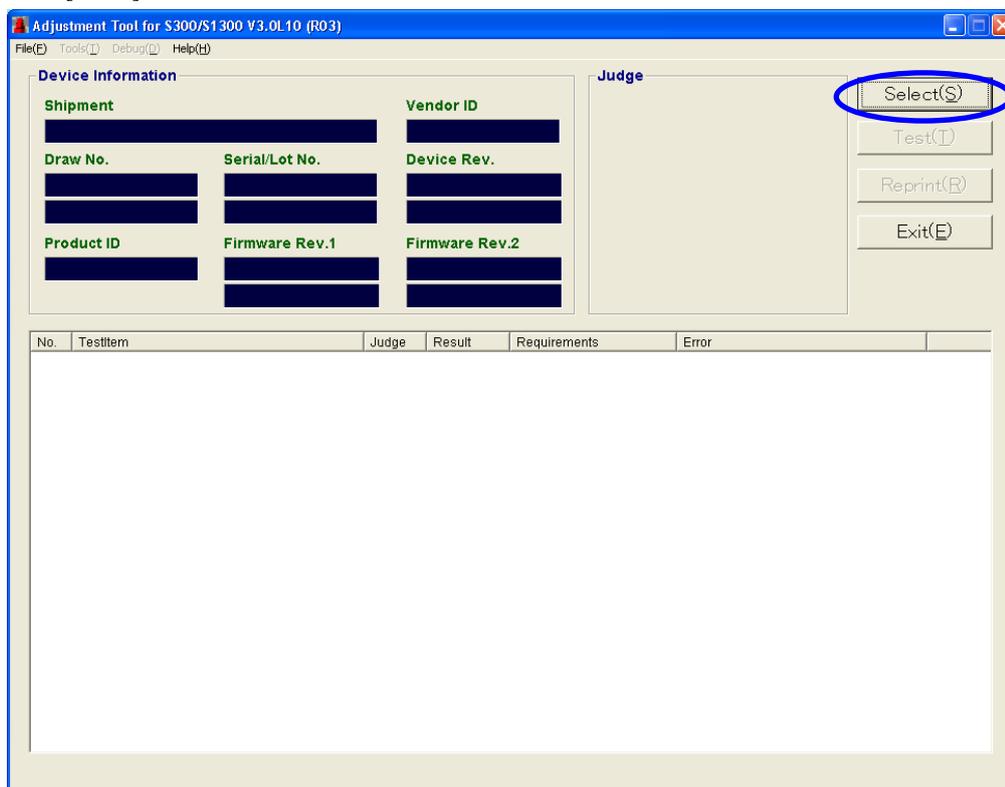
Note: Prepare the following Test Charts to adjust and test the image quality.

Description	P/N	Remarks
Test Chart No.42 Test Sheet (W)	PA03277-Y120 PA03277-Y123	Refer to Section 5.4.

- 1) Run ttatp.exe to activate TP-TOWER.
- 2) The screen below appears. Select "ScanSnap S1300i" and click the [OK] button.

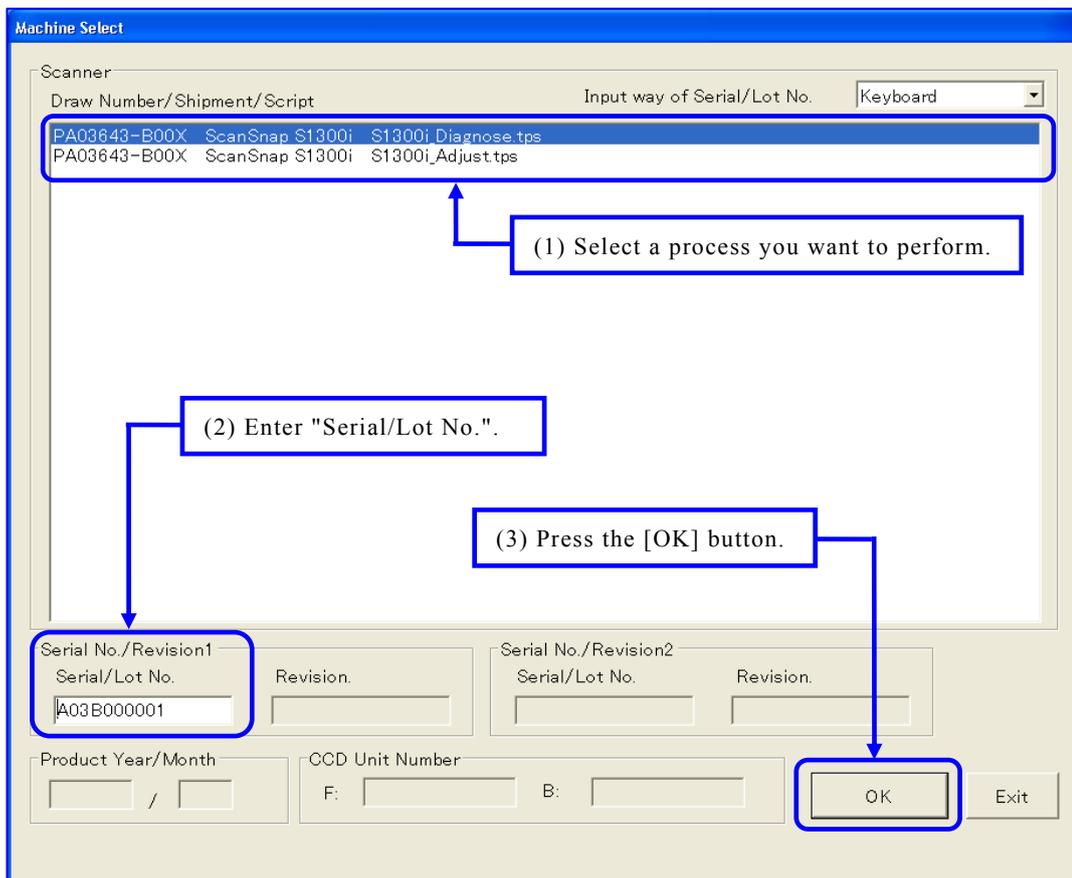


- 3) Click the [Select] button on the screen below.



						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768	Refer to P2		
Rev.	Date	Desig.	Check	Appr.	Description			
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu	PFU LIMITED	
							Page	91 / 115

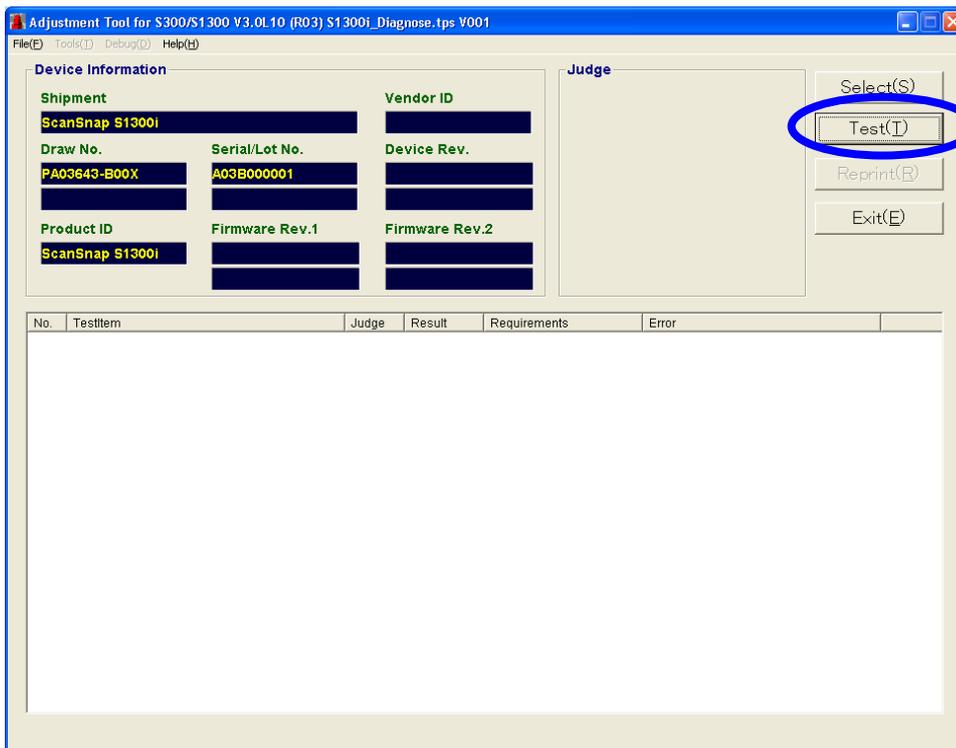
- 4) Select a process you want to perform as follows.
  - (1) Select a process you want to perform.
    - S1300i\_Diagnose.tps: Troubleshooting
    - S1300i\_Adjust.tps: Adjustment
  - (2) After selecting it, enter the following item.
    - Serial/Lot No.: Enter the scanner serial number.
  - (3) Press the [OK] button, and the screen in step (5) appears.



						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768 Referto P2			
Rev.	Date	Desig.	Check	Appr.	Description			
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu	PFU LIMITED	Page 92 / 115

5) Click the [Test] button to start testing.

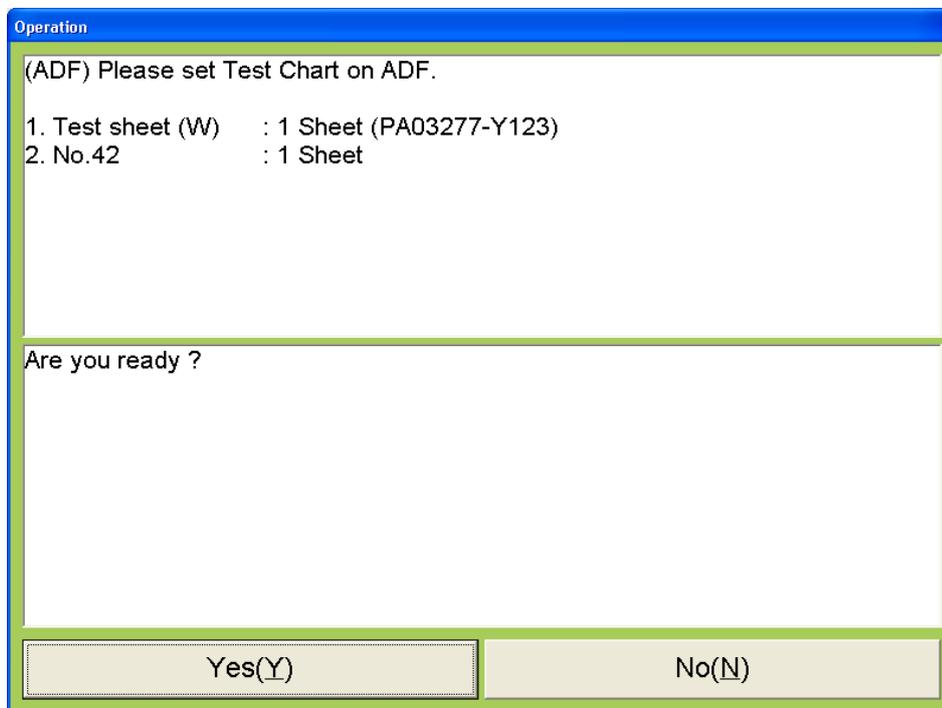
Perform the subsequent operations according to the screen instructions.



Note 1: The screen below appears at image quality check or adjustment.

Load the specified test charts one by one according to the screen instructions.

When one test chart has been scanned, the “Paper empty” error may appear, but you can continue adjustment/diagnosis by resetting the error and loading the next test chart specified in the upper window of the screen.

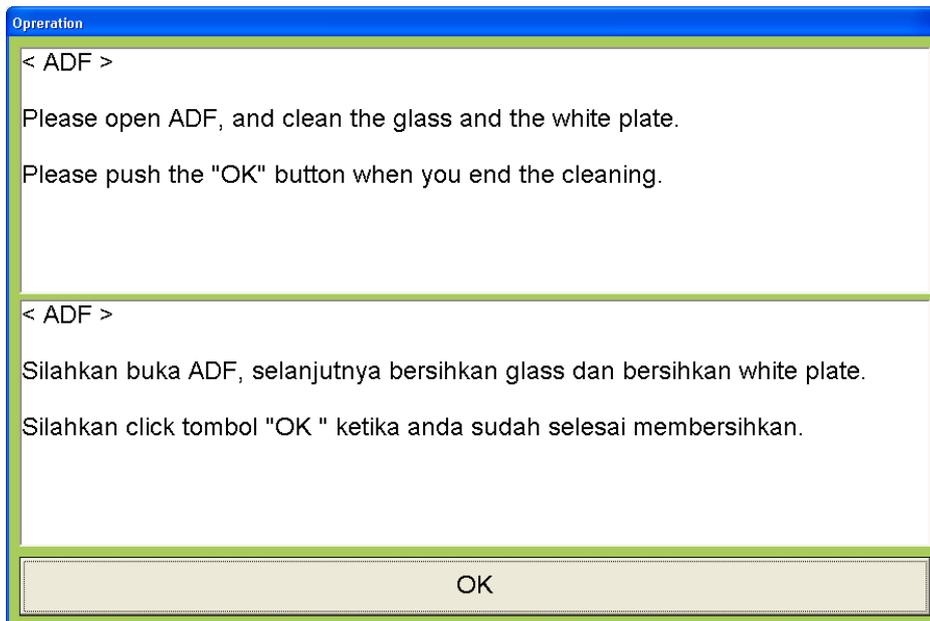


						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768	Refarto P2		
Rev.	Date	Desig.	Check	Appr.	Description			
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu	PFU LIMITED	
							Page	93 / 115

Note 2: The screen below appears at image adjustment.

Follow the screen instructions, open the ADF, and then clean the glass and white backing strips.

After cleaning them and closing the ADF, press the [OK] button.



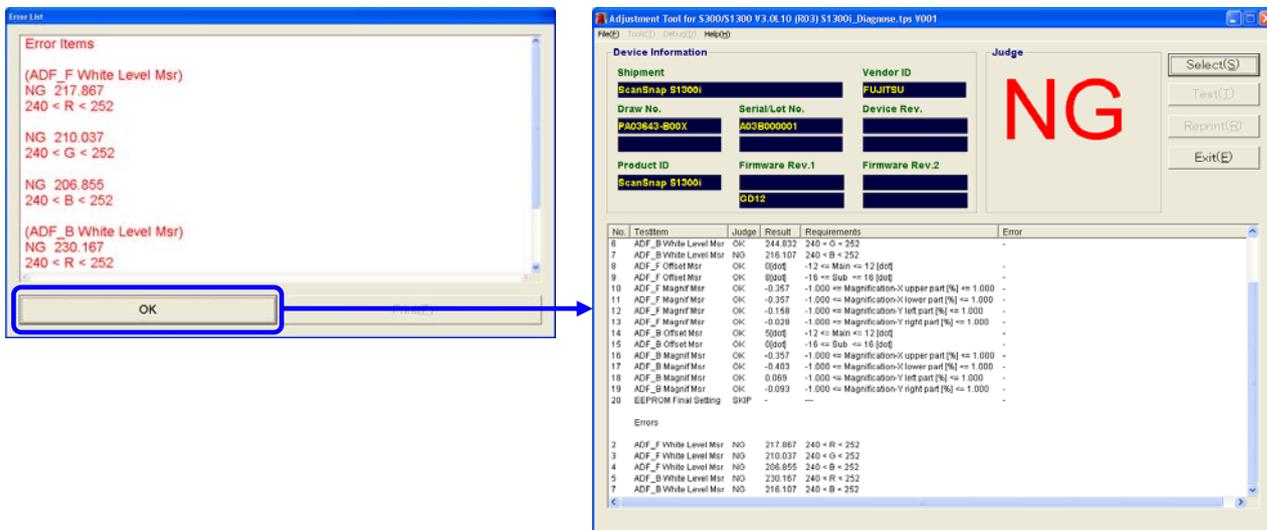
						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768	Refarto P2		
Rev.	Date	Desig.	Check	Appr.	Description		PFU LIMITED	Page 94 / 115
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu		

6) Check the result.

The result is displayed as shown on steps (7) and (8).

If an error occurs, the screen on the left below appears. (The NG items, results and rules are shown.)

Press the [OK] button to close the screen.



This screen indicates the item names, the results, and standards judged NG.

Click the [OK] button to close this screen.

Refer to the following table to troubleshoot the error.

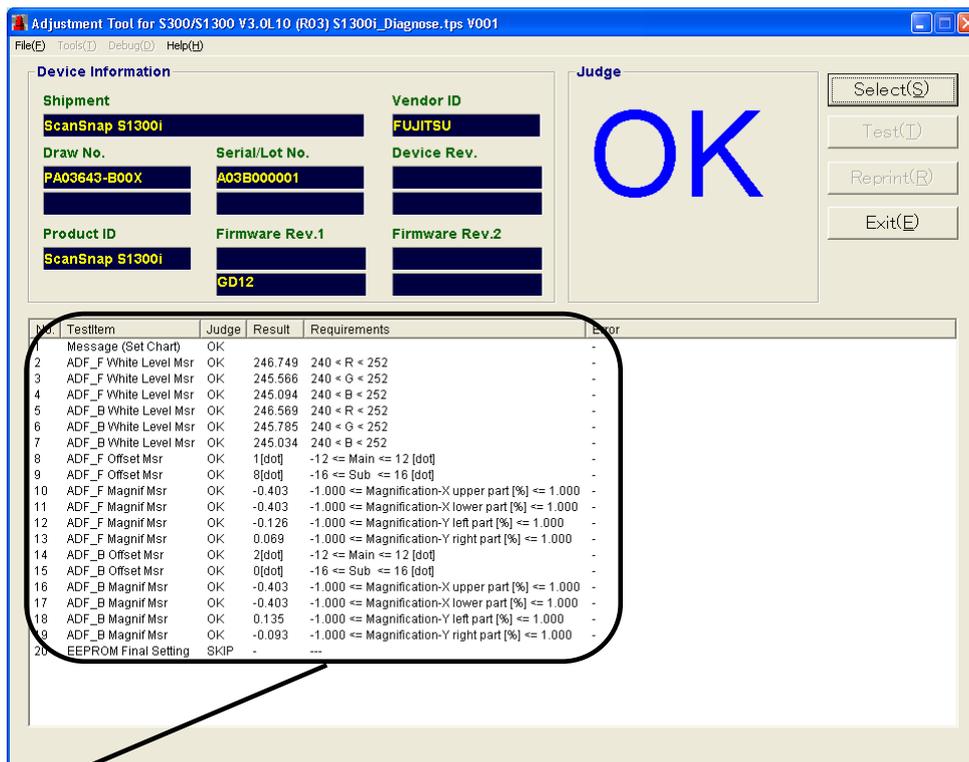
Error	Table to refer
ADF F Offset	Table 4.3.5
ADF B Offset	
ADF F Magnif	
ADF B Magnif	Table 4.3.6
ADF white level	

The NG report is also saved in CSV file. The file is saved in the same file folder under folder where the TP-TOWER is located;

- Image Quality Test  
[Test program installation folder]¥QC\_Data¥ScanSnap S1300¥ S1300\_Diagnose\_#####\_yyymmdd\_hhmmss\_NG
- Image Quality Adjustment  
[Test program installation folder]¥QC\_Data¥ScanSnap S1300¥ S1300\_Adjust\_#####\_yyymmdd\_hhmmss\_NG
- **File name: NGReport.csv**  
##### : Serial No. (Serial number entered in step (4))  
yyymmdd : Tested date  
hhmmss : Tested (start) time

						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768	Referto P2		
Rev.	Date	Desig.	Check	Appr.	Description			
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu	PFU LIMITED	
							Page	95 / 115

7) Image Quality Check Result  
[Image Quality Check Screen Example]



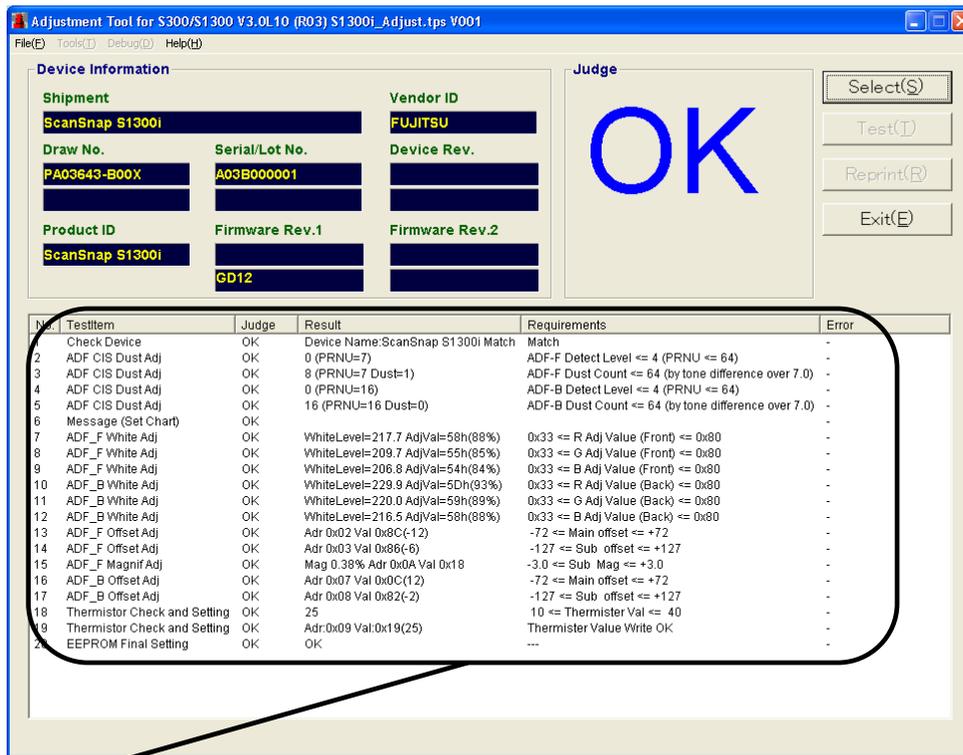
The contents of the display are just an example.

No.	Test Item	Judge	Result	Requirements	Error
1	Message (Set Chart)		OK		
2	ADF_F White Level Msr		OK	240 < R < 252	◇ White level measurement (Front: No.2 ~ 4) (Back: No.5 ~ 7) - Test item: ADF_F White Level Msr / ADF_B White Level Msr - Purpose: To confirm that Resolution level of the reference sheet (test chart) is within specification range.
3	ADF_F White Level Msr		OK	240 < G < 252	
4	ADF_F White Level Msr		OK	240 < B < 252	
5	ADF_B White Level Msr		OK	240 < R < 252	
6	ADF_B White Level Msr		OK	240 < G < 252	
7	ADF_B White Level Msr		OK	240 < B < 252	
8	ADF_F Offset Msr		OK	-12 <= Main <= 12 [dot]	
9	ADF_F Offset Msr	Image quality result display	OK/NG	-16 <= Sub <= 16 [dot]	
10	ADF_F Magnif Msr		OK	-1.000 <= Main Mag. Upper [%] <= 1.000	◇ Magnification measurement (Front:No.10~13)(Back:No.16~19) - Test item: ADF_F Magnif Msr / ADF_B Magnif Msr - Purpose: To confirm that main & sub-scanning magnification values are within specification range. - How to see the result Plus: Image size is larger than physical size of the chart. Minus: Image size is smaller than physical size of the chart.
11	ADF_F Magnif Msr		OK	-1.000 <= Main Mag. Lower [%] <= 1.000	
12	ADF_F Magnif Msr		OK	-1.000 <= Sub Mag. Left [%] <= 1.000	
13	ADF_F Magnif Msr		OK	-1.000 <= Sub Mag. Right [%] <= 1.000	
14	ADF_B Offset Msr		OK	-12 <= Main <= 12 [dot]	
15	ADF_B Offset Msr		OK	-16 <= Sub <= 16 [dot]	
16	ADF_B Magnif Msr		OK	-1.000 <= Main Mag. Upper [%] <= 1.000	
17	ADF_B Magnif Msr		OK	-1.000 <= Main Mag. Lower [%] <= 1.000	
18	ADF_B Magnif Msr		OK	-1.000 <= Sub Mag. Left [%] <= 1.000	
19	ADF_B Magnif Msr		OK	-1.000 <= Sub Mag. Right [%] <= 1.000	
20	EEPROM Final Setting		SKIP	---	

						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768	Refarto P2		
Rev.	Date	Desig.	Check	Appr.	Description		PFU LIMITED	Page 96 / 115
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu		

8) Image Adjustment Result

[Image Adjustment Screen Example]



\* The contents of the display are just an example.

No.	Test item	Judge	Result	Requirements	Description
1	Check Device				A*
2	ADF CIS Dust Adj			ADF-F Detect Level <= 4 (PRNU <= 64)	
3	ADF CIS Dust Adj			ADF-F Dust Count <= 64 (by tone difference over 7.0)	
4	ADF CIS Dust Adj			ADF-B Detect Level <= 4 (PRNU <= 64)	
5	ADF CIS Dust Adj			ADF-B Dust Count <= 64 (by tone difference over 7.0)	
6	Message (Set Chart)				B*
7	ADF_F White Adj			0x33 <= R Adj Value (Front) <= 0x80	
8	ADF_F White Adj			0x33 <= G Adj Value (Front) <= 0x80	
9	ADF_F White Adj			0x33 <= B Adj Value (Front) <= 0x80	
10	ADF_B White Adj			0x33 <= R Adj Value (Back) <= 0x80	
11	ADF_B White Adj	OK/NG	Image adjustment result display	0x33 <= G Adj Value (Back) <= 0x80	
12	ADF_B White Adj			0x33 <= B Adj Value (Back) <= 0x80	C*
13	ADF_F Offset Adj			-72 <= Main offset <= +72	
14	ADF_F Offset Adj			-127 <= Sub offset <= +127	
15	ADF_F Magnif Adj			-3.0 <= Sub Mag <= +3.0	
16	ADF_B Offset Adj			-72 <= Main offset <= +72	E*
17	ADF_B Offset Adj			-127 <= Sub offset <= +127	
18	Thermistor Check and Setting			10 <= Thermistor Val <= 79	D*
19	Thermistor Check and Setting			Thermistor Value Write OK	
20	EEPROM Final Setting			---	F*
					G*

\*See next page.

						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768	Refarto P2		
Rev.	Date	Desig.	Check	Appr.	Description		PFU LIMITED	Page 97 / 115
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu		

Item	Description
A	<p>Checking foreign object position in CIS (No.2 ~ 5)</p> <p>-Test Item: ADF CIS Dust Adj</p> <p>- Purpose: To check the foreign object position in CIS, and write the position and dust collection slice-level in the EEPROM to memorize.</p> <p>-How to see the result:            "0 (PRNU=8)" → 0: Correction level, 8: the number of detected PRNU            "9 (PRNU=8 Dust=1)" → 9: Total number of detected PRNU and vertical streaks</p>
B	<p>White level adjustment (No.7~12)</p> <p>-Test Item: ADF_F White Adj / ADF_B White Adj</p> <p>- Purpose: To adjust the white level balance to correct the image contrast.</p> <p>-How to see the result:            "White Level=208.1" → The white level before adjustment            "AdjVal=54h(84%)" → EEPROM setting value to correct the white level to target value (246 levels of gray)</p>
C	<p>Main scanning offset adjustment (No.13, 16)</p> <p>-Test Item: ADF_F Offset Adj → Front side            ADF_B Offset Adj → Backside</p> <p>-Purpose: To correct the offset in main scanning direction.</p> <p>-How to see the result:            "Adr 0x02" → EEPROM address            "Val:0x8A(-10)" → EEPROM setting value</p>
D	<p>Sub-scanning offset adjustment (No.14, 17)</p> <p>-Test Item: ADF_F Offset Adj → Front side            ADF_B Offset Adj → Backside</p> <p>-Purpose: To correct the offset in sub-scanning direction.</p> <p>-How to see the result:            "Adr 0x03" → EEPROM address            "Val 0x84(-4)" → EEPROM setting value</p>
E	<p>Sub-scanning magnification adjustment (No.15)</p> <p>-Test Item: ADF_F Magnif Adj → for both Front and Back</p> <p>-Purpose: To correct the magnification in sub-scanning direction.</p> <p>-How to see the result:            "Mag 0.54%" → Sub-scanning magnification before adjustment            "Adr 0x0A" → EEPROM address            "Val 0x1B" → EEPROM setting value</p>
F	<p>Temperature setting at adjustment (No.18, 19)</p> <p>-Test Item: Temperature measurement and adjustment by thermistor</p> <p>-Purpose: To set the temperature in the scanner at sub-scanning magnification adjustment.</p> <p>-How to see the result:            "Mag 0x09" → EEPROM address            "Val 0x19(25)" → EEPROM setting value</p>
G	<p>EEPROM setting (No.20)</p> <p>-Test Item: EEPROM setting</p> <p>-Purpose: To delete the following Log data.            User firmware version            Code of errors that occurred in the past            Error history (Equipment errors)            Error history (Temporary errors)</p>

						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768	Refar to P2		
Rev.	Date	Desig.	Check	Appr.	Description		PFU LIMITED	Page 98 / 115
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu		

## Chapter 8 Operation and Daily Maintenance

### 8.1 Basic Operation

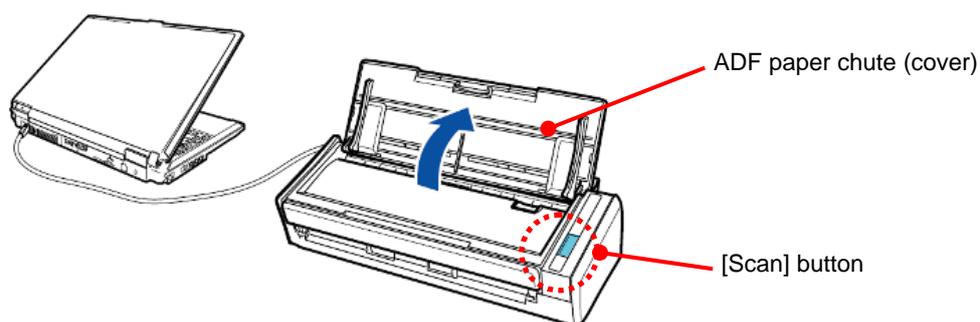
#### 8.1.1 Turning the Scanner ON/OFF

This section explains how to turn the scanner ON/OFF.

The scanner is turned ON/OFF in conjunction with the computer. Therefore, you do not have to worry about turning the power ON/OFF as long as the scanner is connected to a computer.

<Turning the scanner on>

- (1) Open the ADF paper chute (cover) when the computer is turned on.
- (2) The [Scan] button blinks blue to indicate that the scanner is turned on, and lights in blue when the scanner is ready to scan.

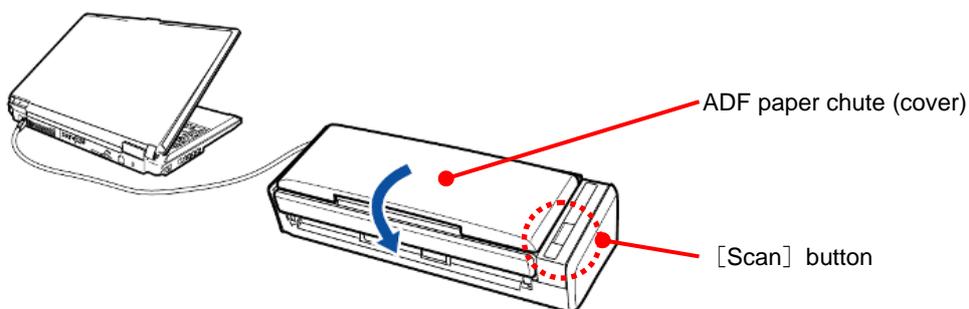


#### NOTICE

With some computers, the initialization of the scanner may be performed several times when the computer is started up.

<Turning the scanner off>

- (1) Turn off the computer or close the ADF paper chute (cover).
- (2) The [Scan] button switches off when the scanner is turned off.



#### NOTICE

- Close the ADF paper chute (cover) after putting the extension back.
- With some computers, it may take two to three minutes until the light of the [Scan] button goes out after the computer is turned off.

<Scanner sleep mode>

When the scanner has not been used for 1 minute while the power is on, it enters sleep (power saving) mode. The scanner's internal light switches off in sleep mode.

						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768	Refar to P2		
Rev.	Date	Desig.	Check	Appr.	Description		PFU LIMITED	Page 99 / 115
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu		

<Scanner's auto power off>

When the scanner is turned on and left unused for the specified time (default is "4 hours"), it will turn itself off automatically.

To turn the scanner back on, perform one of the following operations:

- Press the [Scan] button on the scanner
- Close the ADF paper chute (cover) and open it again

### 8.1.2 Loading Documents

This section explains how to load documents in the scanner.

- (1) If you are loading multiple sheets, check the number of sheets.

The maximum number of sheets in the scanner is as follows:

For A4 or smaller sizes: Up to 10 sheets can be loaded (with paper weight of 80 g/m<sup>2</sup> [20 lb] and thickness of the document stack under 1 mm).

For details, refer to Section [1.1.4](#).

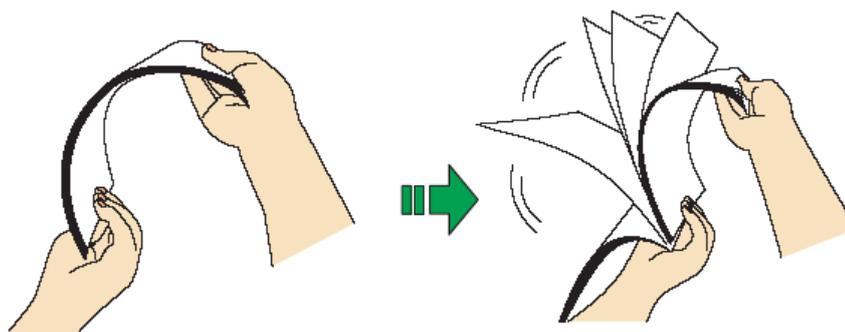
#### NOTICE

If you try to scan more than the maximum amount that can be loaded, the following problems may occur:

- Files may not be properly created due to excessive file size.
- Paper jams may occur.

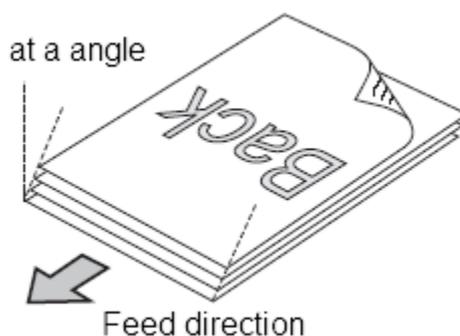
- (2) Fan the documents.

1. Hold both ends of the documents and fan them a few times.



2. Rotate the documents by 90 degrees and fan them in the same manner.

- (3) Straighten the edges of the documents and slightly displace the top edges at an angle.

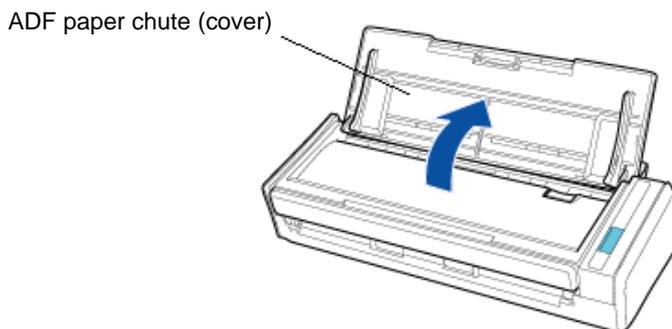


#### NOTICE

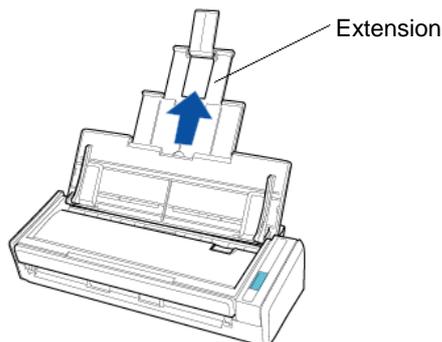
Paper jams or damage to documents may occur if you scan the documents without aligning the edges first.

						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768	Refarto P2		
Rev.	Date	Desig.	Check	Appr.	Description			
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu	PFU LIMITED	
							Page	100 / 115

(4) Open the ADF paper chute (cover) of the scanner.

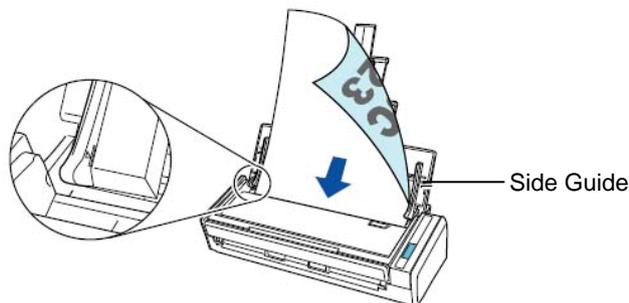


(5) Pull out the extension.



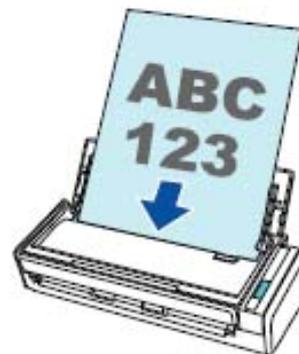
(6) Load the documents in the ADF paper chute (cover).

Load the documents face-down and top-first with their back facing you. Load the documents so that they are not beyond the reference marks within the side guides.



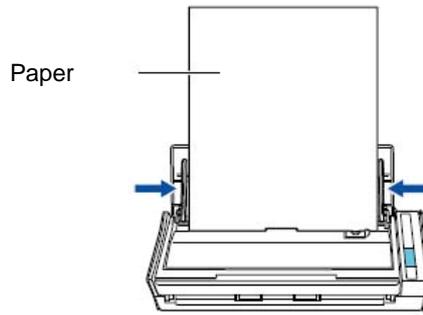
[Reference] For Windows models

Right-click the ScanSnap Manager icon on the taskbar, and select [Scan Button Settings]. In the ScanSnap setup dialog box that appears, click the [Detail] button, then select the [Scanning] tab → [Option] button. If the [Set the document with its face up] check box is selected in the [Scanning mode option] dialog box, load documents face-up and bottom edge first.



						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768	Refar to P2		
Rev.	Date	Desig.	Check	Appr.	Description		PFU LIMITED	Page 101 / 115
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu		

- (7) Adjust the side guides to the width of the documents.  
 Do not leave space between the side guides and the documents.  
 Otherwise, the documents may be fed skewed.



**8.1.3 Scanning Documents**

Refer to Section 3.2.5 for how to scan a test document.

						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768	Refer to P2		
Rev.	Date	Desig.	Check	Appr.	Description		PFU LIMITED	Page 102 / 115
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu		

## 8.2 Daily Care

### 8.2.1 Cleaning Parts and Cleaning Frequency

The user of this scanner is recommended to perform cleaning once after every 200 sheets scanned. However, depending on the kind of document that is scanned, more frequent cleaning may be required.

#### NOTICE

- Before you perform cleaning, you must turn off the ScanSnap and unplug the cables to avoid the risk of fire or electric shock.
- Do not place internal parts of the scanner (e.g. pad ASSY, pick roller) anywhere within reach of small children.
- Do not use aerosol spray or spray that contains alcohol to clean the scanner. Dust blown up by strong air from the spray may enter inside of the scanner which may cause scanner failure or malfunction.  
Also note that sparks generated by static electricity may cause a fire.
- The glasses inside the scanner become very hot when the ScanSnap is being used. Unplug the cables from the ScanSnap and wait for at least 15 minutes before cleaning.

#### CAUTION

- When you perform cleaning, be careful not to get your hand or the cloth caught on the pick spring (metal part) as a deformed pick spring may cause injury.

No.	Cleaning Parts	Cleaning Method	Remarks
1	Device exterior	Refer to Section 8.2.3, and clean the device exterior.	
2	Pad ASSY	Refer to "1." in Section 8.2.4, and clean the pad ASSY.	
3	Glass	Refer to "2." in Section 8.2.4, and clean the glass.	
4	White backing strip	Refer to "3." in Section 8.2.4, and clean the white backing strips.	
5	Pick roller	Refer to "4." in Section 8.2.4, and clean the pick roller.	
6	Idler roller	Refer to "5." in Section 8.2.4, and clean the idler roller.	
7	Feed roller	Refer to "6." in Section 8.2.4, and clean the feed roller.	
8	Eject roller	Refer to "7." in Section 8.2.4, and clean the eject.	

### 8.2.2 Cleaning Materials

Cleaning materials and their part numbers are as below.

No.	Product Name	Part No.	Remarks
1	Cleaner F1 	PA03950-0352	1 bottle (100 ml) Spray onto the cloth to clean. It may take a long time for Cleaner F1 to dry if an excessive amount is used. Moisten the cloth with moderate quantity. Wipe off the cleaner completely to leave no residue on the cleaned parts.
2	Cleaning Wipe 	PA03950-0419	1 pack (24 packets) Cleaning Wipes are wet sheets pre-moistened with Cleaner F1 which can be used instead of cloths moistened with Cleaner F1.
3	Lint-free dry cloth	---	Commercially available

						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768	Refer to P2		
Rev.	Date	Desig.	Check	Appr.	Description		PFU LIMITED	Page 103 / 115
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu		

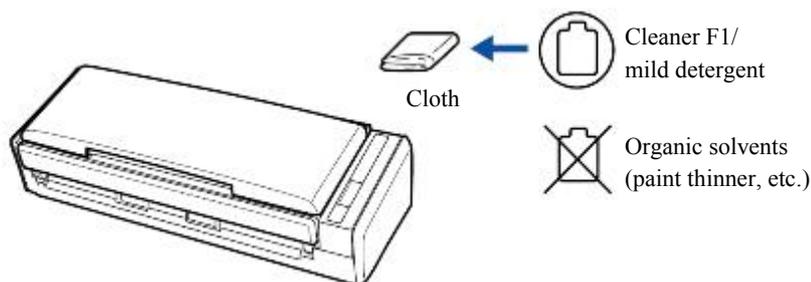
### 8.2.3 Cleaning the Scanner Exterior

#### NOTICE

- Never use paint thinner or any other organic solvents.
- Be careful not to get any moisture or water inside the scanner during cleaning.
- It may take a long time for Cleaner F1 to dry if an excessive amount is used. Moisten the cloth with moderate quantity. Wipe off the cleaner completely to leave no residue on the cleaned parts.

<Cleaning Method>

Clean the outside of the ScanSnap with a dry cloth, or a cloth moistened with Cleaner F1/mild detergent.



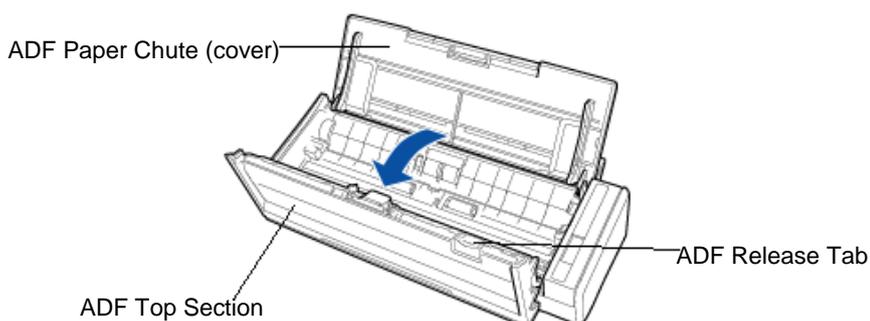
### 8.2.4 Cleaning the Inside of the Scanner

Clean the inside of the scanner with a cloth moistened with Cleaner F1 or with a Cleaning Wipe.

Scanning continuously may cause dust and paper dust to accumulate inside the ScanSnap and result in scanning error. As a guideline, clean the inside of the ScanSnap every 200 sheets scanned. Note that this guideline varies depending on the types of documents you scan. For instance, it may be necessary to clean the scanner more frequently when you scan documents on which the toner is not sufficiently fused.

#### Cleaning Procedure:

- (1) Turn the scanner power off, and wait for 15 minutes.
- (2) Pull the ADF Release Tab to open the ADF Top Section.



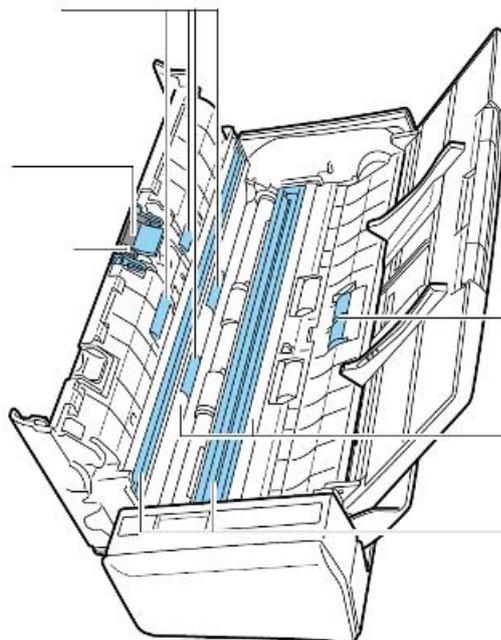
						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768	Refarto P2		
Rev.	Date	Desig.	Check	Appr.	Description		PFU LIMITED	Page 104 / 115
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu		

(3) Clean the following locations with a cloth moistened with Cleaner F1 or with a Cleaning Wipe.

5. Idler roller ( x 4 )

1. Pad ASSY

1. Pick spring  
(metal part)



4. Pick roller

3. White backing  
strip ( x 2 )

2. Glass ( x 2 )

1. Pad ASSY (x 1)

Wipe the Pad ASSY downward. When cleaning the Pad ASSY, be careful not to get your hand or the cloth caught on the pick spring (metal part).

2. Glass (x 2; located on the ADF Top Section and its opposite side)

Clean the glass surface lightly with a soft cloth.

3. White backing strip (x 2; located on the ADF Top Section and its opposite side)

White strips along the edge of the glass. Clean the surface lightly with a soft cloth.

4. Pick roller (x 1)

Clean the roller lightly while rotating it with your finger downwards. Be careful not to damage the surface of the rollers. Take particular care in cleaning the rollers since foreign substances left on the rollers negatively affect the feed performance.

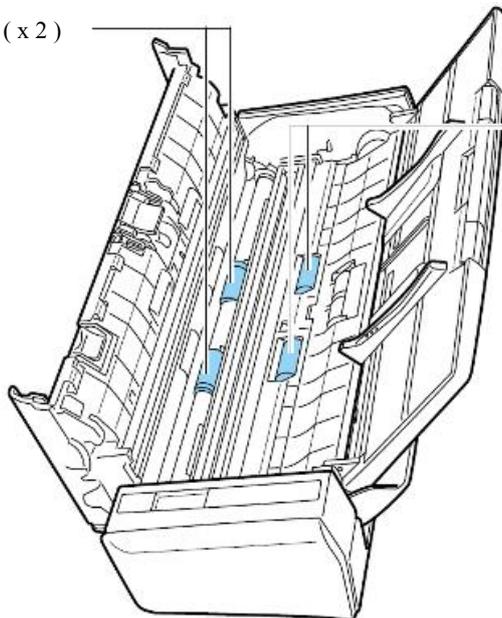
5. Idler roller (x 4, located on the ADF Top Section)

Clean the rollers lightly while rotating them with your fingers. Be careful not to damage the surface of the rollers. Take particular care in cleaning the rollers since foreign substances left on the rollers negatively affect the feed performance.

						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768	Refer to P2		
Rev.	Date	Desig.	Check	Appr.	Description		PFU LIMITED	Page 105 / 115
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu		

- (4) Connect the power cable (or the USB bus power cable) to the ScanSnap and the computer, then press the [Scan] button for 3 seconds with the ADF top section open.
- (5) Clean the feed roller and the eject roller with a cloth moistened with Cleaner F1.

7. Eject roller ( x 2 )



6. Feed roller ( x 2 )

- 6. Feed roller ( x 2 )  
Press the [Scan] button to rotate the roller. Gently wipe the dirt and dust off while taking care not to damage the surface of the rollers. Make sure that it is cleaned properly because residue on the roller will affect the feeding performance.
- 7. Eject roller ( x 2 )  
Press the [Scan] button to rotate the roller. Gently wipe the dirt and dust off while taking care not to damage the surface of the rollers. Make sure that it is cleaned properly because residue on the roller will affect the feeding performance.

- (6) Close the ADF top section.

						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768	Referto P2		
Rev.	Date	Desig.	Check	Appr.	Description		PFU LIMITED	Page 106 / 115
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu		

## 8.3 Consumables and Replacement

### 8.3.1 Consumables

The scanner has the following consumables that users need to replace at regular intervals.

Refer to the following for the procedure to check/reset the use count of consumables and the replacement procedure.

Consumables can be replaced by the user.

No.	Name	Part No.	Standard replacement cycle *	How to check the number of scanned documents	How to replace
1	PAD ASSY 	PA03541-0002	10,000 sheets or one year	See Section 8.3.2.	See Section 8.3.3.
2	PICK ROLLER 	PA03541-0001	100,000 sheets or one year		See Section 8.3.4.

\* The suggested replacement cycles are based on A4/Letter paper free of wood fibers 80 g/m<sup>2</sup> (20 lb) as the cycle varies according to the paper type used.

Use only consumables specified by PFU LIMITED.

To purchase the consumables, contact your FUJITSU dealer or an authorized FUJITSU scanner service provider.

						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768	Refer to P2		
Rev.	Date	Desig.	Check	Appr.	Description		PFU LIMITED	Page 107 / 115
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu		

### 8.3.2 Checking/Resetting the Consumable Counter

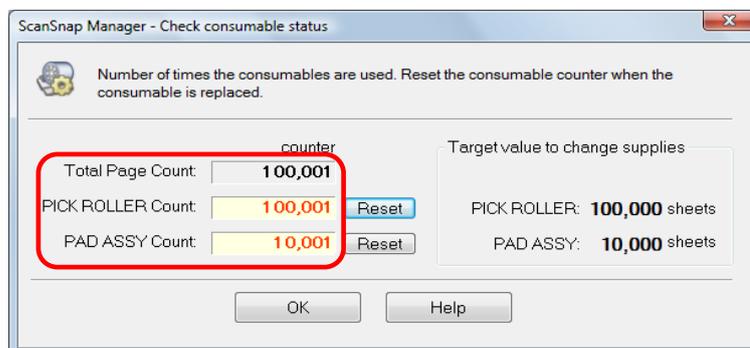
#### 8.3.2.1 Checking the Consumable Counter

Each consumable counter can be checked by using one of the following procedures:

- ScanSnap S1300i : Windows OS Refer to <ScanSnap S1300i for Windows OS>
- : Mac OS Refer to <ScanSnap S1300i for Mac OS>

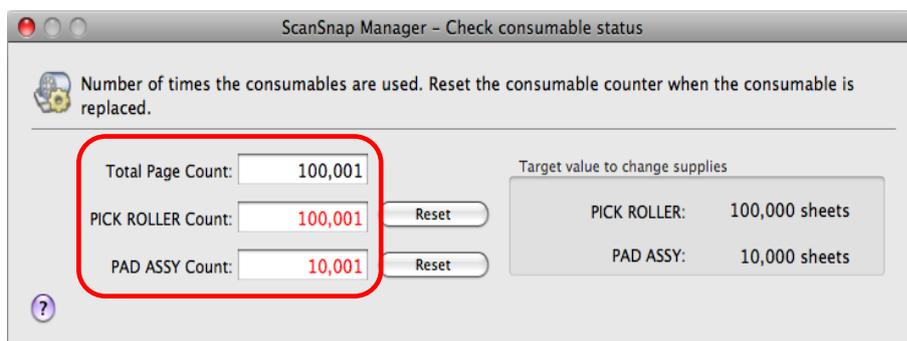
<ScanSnap S1300i for Windows OS>

- (1) Select [Check consumable status] from the Right-Click Menu.
- (2) The [ScanSnap Manager - Check consumable status] dialog box appears.
- (3) Check the status of each consumable.



<ScanSnap S1300i for Mac OS>

- (1) Select [Check consumable status] from the ScanSnap Manager menu.
- (2) The [ScanSnap Manager - Check consumable status] window appears.
- (3) Check the status of each consumable.



						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768	Refer to P2		
Rev.	Date	Desig.	Check	Appr.	Description		PFU LIMITED	Page 108 / 115
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu		

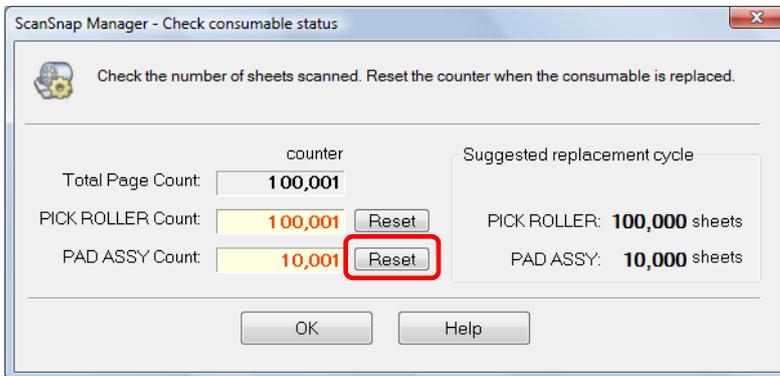
**8.3.2.2 Resetting the Consumable Counter**

Each consumable counter can be reset by using one of the following procedures:

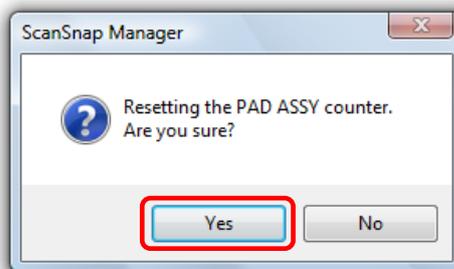
- ScanSnap S1300i : Windows OS Refer to <ScanSnap S1300i for Windows OS>
- : Mac OS Refer to <ScanSnap S1300i for Mac OS>

<ScanSnap S1300i for Windows OS>

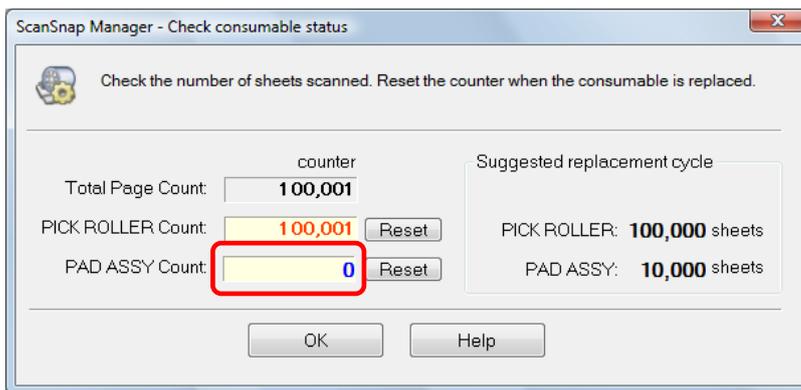
- (1) Select [Check consumable status] from the Right-Click Menu.
- (2) The [ScanSnap Manager - Check consumable status] dialog box appears.
- (3) Click the [Reset] button for the consumable counter that you want to clear.



- (4) Click the [Yes] button.



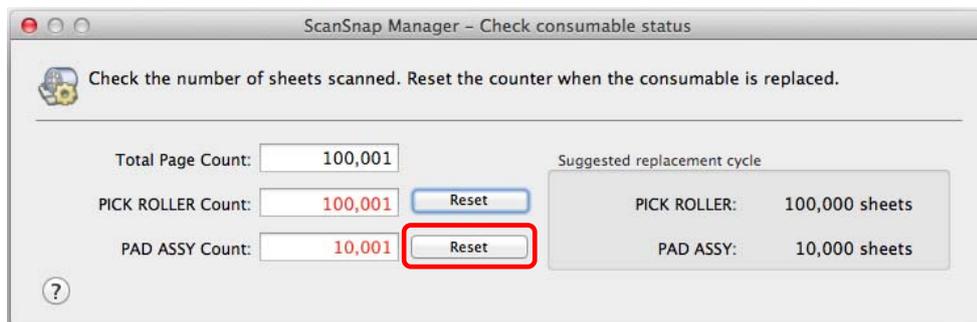
- (5) The count is reset to 0.



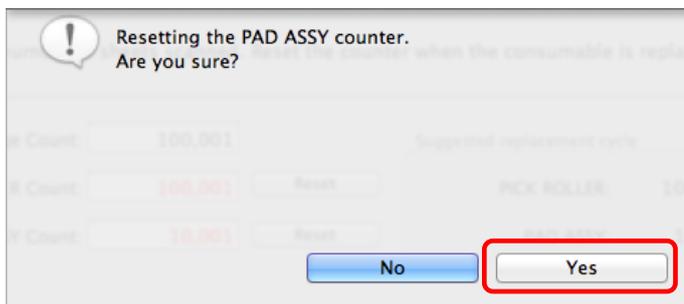
						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768	Refer to P2		
Rev.	Date	Desig.	Check	Appr.	Description			
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu	PFU LIMITED	Page 109 / 115

<ScanSnap S1300i for Mac OS>

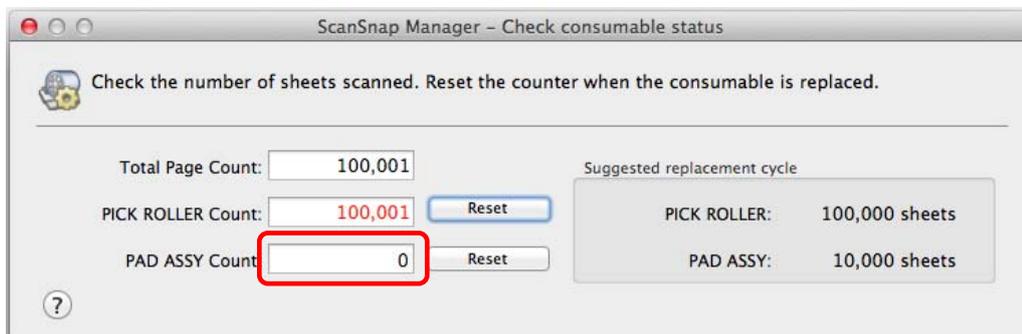
- (1) Select [Check consumable status] from the ScanSnap Manager menu.
- (2) The [ScanSnap Manager - Check consumable status] window appears.
- (3) Click the [Reset] button for the consumable counter that you want to clear.



- (4) Click the [Yes] button.



- (5) The count is reset to 0.



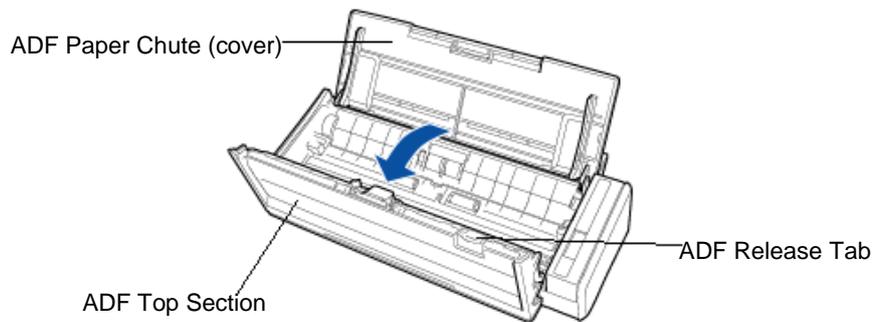
						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768	Refer to P2		
Rev.	Date	Desig.	Check	Appr.	Description			
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu	PFU LIMITED	Page 110 / 115

### 8.3.3 Pad ASSY Replacement

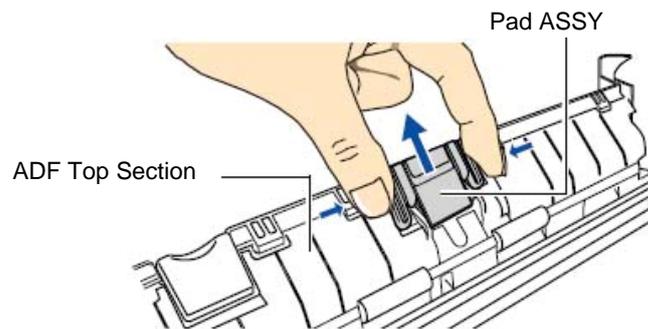


Turn the ScanSnap off, and unplug the power cable from the AC outlet or the USB bus power cable from the computer before you replace any consumables. Failure to do so may result in fire or electric shock.

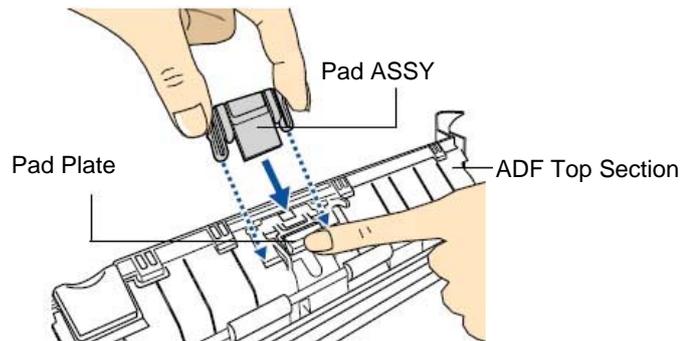
- 1) Remove the documents from the ADF Paper Chute (cover).
- 2) Pull the ADF Release Tab to open the ADF Top Section.



- 3) Pull out the Pad ASSY in the direction of the arrow by pinching both ends of the Pad ASSY.

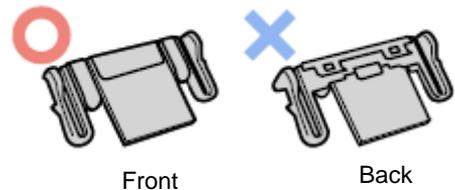


- 4) Attach the new Pad ASSY while pushing the pad plate down.



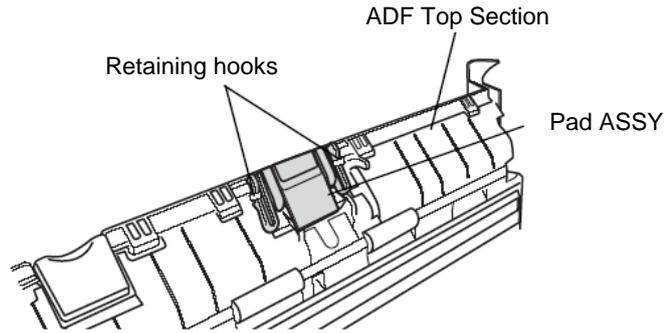
#### NOTICE

Make sure that you attach the Pad ASSY with its front side on top. If it is attached the other way around, paper jams or other feeding errors may occur.



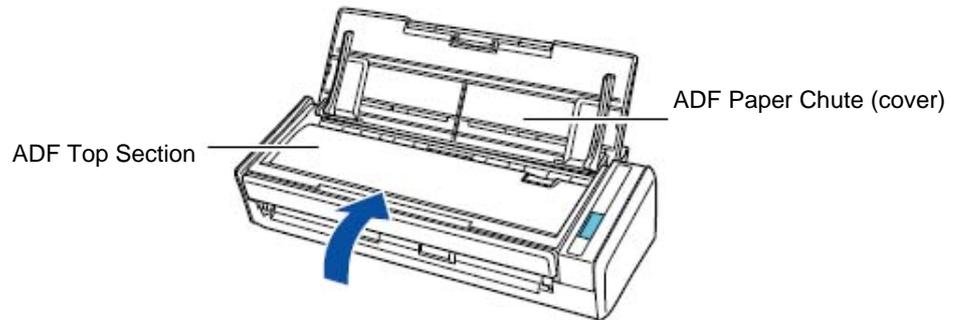
						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768	Refar to P2		
Rev.	Date	Desig.	Check	Appr.	Description			
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu	PFU LIMITED	
							Page	111 / 115

- 5) Make sure that the Pad ASSY is completely locked into the retaining hooks.



**NOTICE**

Make sure that the Pad ASSY is completely attached. Otherwise, paper jams or other feeding errors may occur.



→ You should hear the ADF Top Section click when it returns to its original position.

- 6) Close the ADF Top Section.
- 7) Reset the Pad ASSY counter to 0. (Refer to Section 8.3.2)

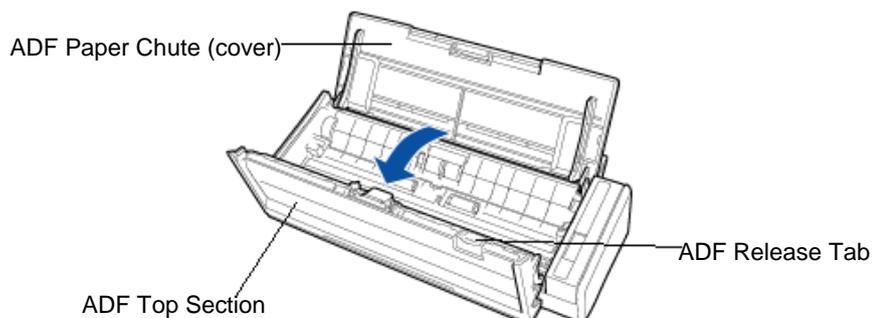
						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768	Refer to P2		
Rev.	Date	Desig.	Check	Appr.	Description		PFU LIMITED	Page 112 / 115
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu		

### 8.3.4 Pick Roller Replacement

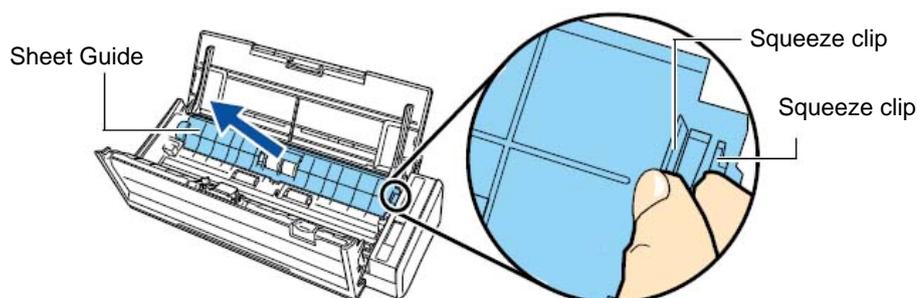


Turn the ScanSnap off, and unplug the power cable from the AC outlet or the USB bus power cable from the computer before you replace any consumables. Failure to do so may result in fire or electric shock.

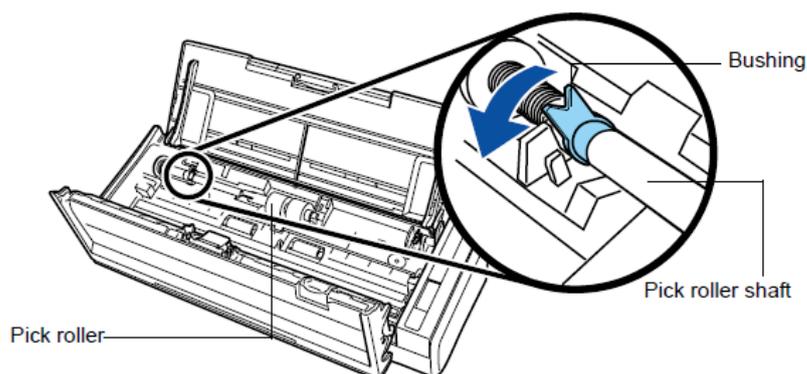
- 1) Remove the documents from the ADF Paper Chute.
- 2) Pull the ADF Release Tab to open the ADF Top Section.



- 3) Hold the squeeze clips on the right of the Sheet Guide with your fingers, and then pull the Sheet Guide up to remove it.



- 4) Rotate the bushing (left).



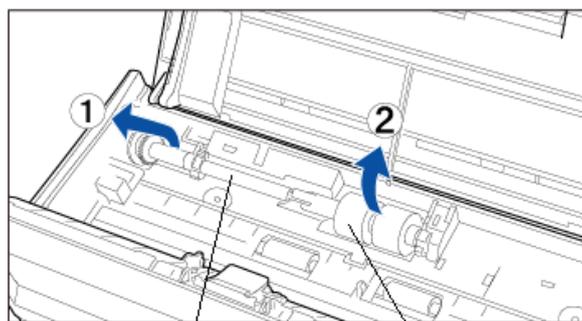
						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768	Refar to P2		
Rev.	Date	Desig.	Check	Appr.	Description		PFU LIMITED	Page 113 / 115
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu		

- Slightly pull up the left part of the Pick roller shaft (about 5mm), move it towards the left side, and then pull it up to remove it from the scanner.

**NOTICE**

The area around the Pick roller may get dirty due to paper dust, and cause scan errors. Remove the dirt using a dry cloth moistened with isopropyl alcohol in order to prevent such errors.

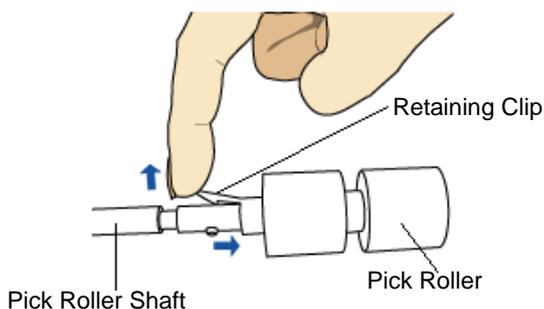
Do NOT use any water, mild detergent or air-spray.



Pick Roller Shaft

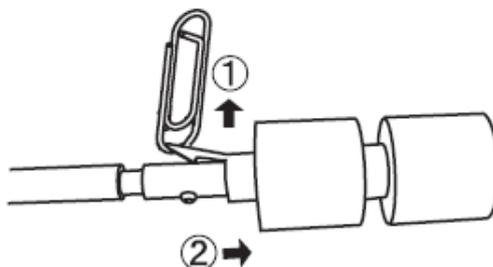
Pick Roller

- Pull out the shaft from the Pick roller lifting up the retaining clip.

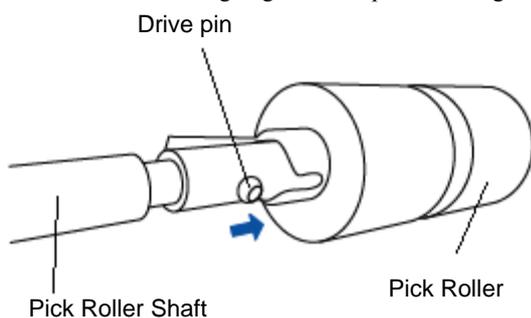


**NOTICE**

Lifting the retaining clip with your fingernail may hurt or damage your fingernail. If you cannot lift it successfully, use a paper clip.

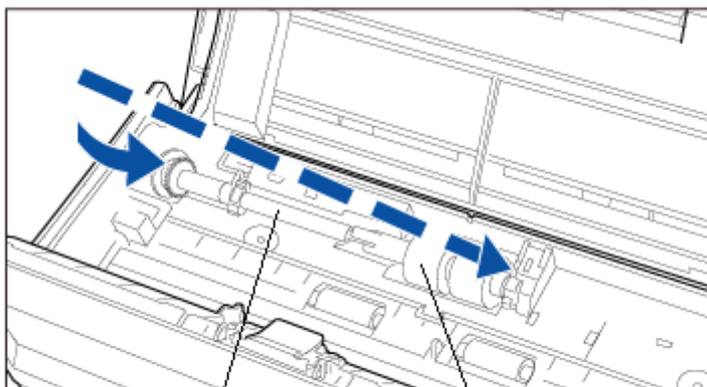


- Insert the Pick roller shaft aligning the drive pin with the groove on the new Pick Roller.



						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768	Refarto P2		
Rev.	Date	Desig.	Check	Appr.	Description		PFU LIMITED	Page 114 / 115
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu		

- 8) Insert the right end of the Pick Roller shaft into the bushing (right), and set the shaft into the slot gradually lowering it.



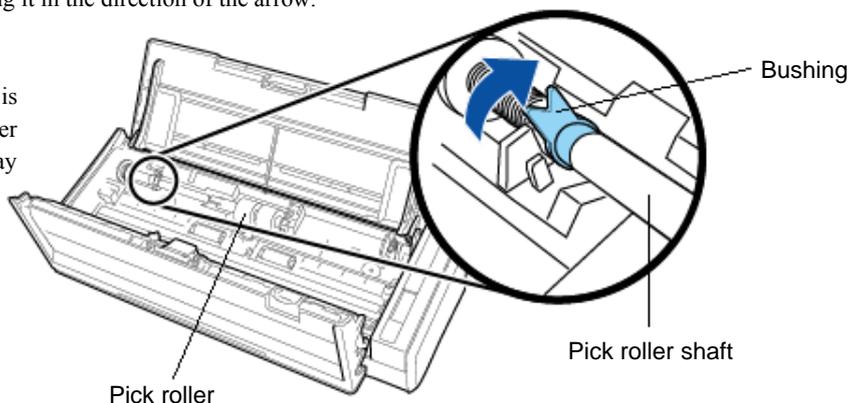
Pick roller shaft

Pick roller

- 9) Secure the bushing (left) by rotating it in the direction of the arrow.

**NOTICE**

Confirm that the Pick roller shaft is attached properly. Otherwise paper jams or other feeding errors may occur.

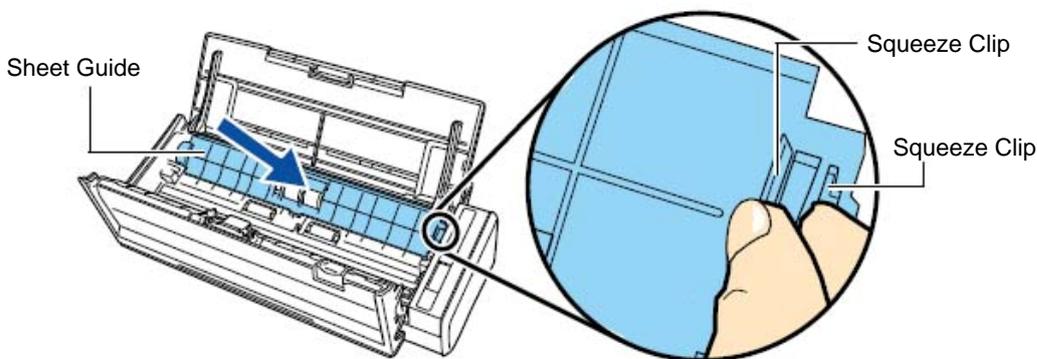


Bushing

Pick roller shaft

Pick roller

- 10) Hold the squeeze clips on the right of the sheet guide between your fingers, and attach the sheet guide.



Sheet Guide

Squeeze Clip

Squeeze Clip

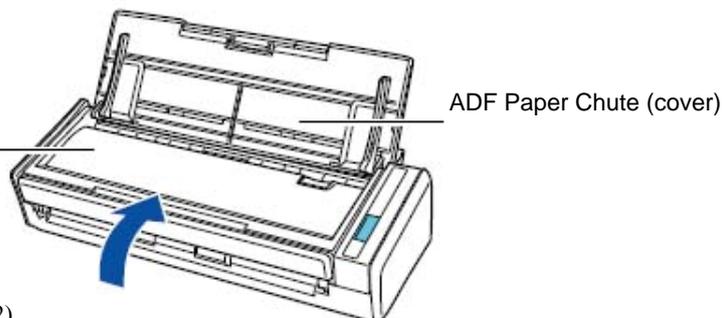
→ The sheet guide makes a clicking sound when the squeeze clips fix into position.

**NOTICE**

Make sure that the sheet guide is completely locked in. Otherwise document jams or other feeding errors may occur.

- 11) Close the ADF top section.

→ You should hear the ADF top section click when it returns to its original position.



ADF Paper Chute (cover)

- 12) Reset the Pick Roller counter. (Refer to Section 8.3.2)

						Name	<b>ScanSnap S1300i Maintenance Manual</b>	
						Drawing No.	<b>P1PA03643-B0XX/6</b>	
02	October 29, 2012	Wakamatsu	Wakamatsu	M.Ohta	P0212A01768	Refer to P2		
Rev.	Date	Desig.	Check	Appr.	Description			
Designed by	March 15, 2012	Oshima	Checked by	Nishibata	Approved by	Iwashimizu	PFU LIMITED	Page 115 / 115