<u>fi-6110, Image Scanner</u> <u>Maintenance Manual</u>



									Name	fi-6 [⁄] Maintenar	110 Ice N	lanual
03	Dec 20, 11	Yashima	Ueda	Maki	Refer to Rev	Refer to Revision Record on page 2.						
02	Aug. 2, 10	K.Okada	A.Miyoshi	I.Fujioka	Refer to Rev	vision Record	on page 2		No.	P1PA03607	7—E	300X/6
Rev.	DATE	DESIG.	CHECK	APPR.	DESCRIPTIO	DN			DE		Daga	1/
DE	SIG. July 1:	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	РГ		rage	152

Revisio	n Record	
Edition	Date published	Revised contents
D01	July 13, 2010	Draft 01 issued.
01	July 15, 2010	First version released.
02	Aug. 2, 2010	Changes in the entire manual. Section 4.1 : Correct the Revolve Unit (TOP COVER ASSY). Section 6.8.4, 6.9 : Note added.
03	Dec 20, 2011	Modify Device Specification Section 1.1.2 No.25 Image memory remarks changed.

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

© PFU LIMTED 2010-2011

										Name	fi-61 Maintenan	10 ce N	lanual
03	Dec 2	20, 11	Yashima	a Ueda	Maki	Refer to Rev	Refer to Revision Record on page 2.						
02	Aug.	2,10	K.Okada	a A.Miyoshi	I.Fujioka	Refer to Rev	ision Record	on page 2		No.	P1PA03607	′—Е	300X/6
Rev.	DA	ΤE	DESIG.	CHECK	APPR.	DESCRIPTIO	DN			DE		Daga	2/
DE	SIG.	July 15	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	Pr		гауе	152

Preface

This manual provides the technical information such as maintenance, troubleshooting procedure and parts replacement procedure for field Engineers on fi-6110 image scanner.

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

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

Item	Manuals	P/N *
1	fi-6110 Image Scanner Operator's Guide	P3PC-3012-xxENZ0
2	fi-6110 Image Scanner Getting Started	P3PC-3002-xxEN
4	[Important] Read Before Using VRS	P3PC-3032-xxENZ0
5	fi-6110 Illustrated Parts Catalog	P4PA03607-B00X/6

* xx represents revision number of the manuals.

Convention

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

MWARNING

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

▲ CAUTION

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

NOTICE indicates "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	fi-6′ Maintenan	110 Ice N	lanual
03	Dec 20, 1	1 Yashim	a Ueda	Maki	Refer to Rev	vision Record	on page 2	2.	Drawing			
02	Aug. 2, 10	K.Okad	a A.Miyoshi	I.Fujioka	Refer to Rev	vision Record	on page 2		No.	P1PA03607	7 — E	300X/6
Rev	DATE	DESIG.	CHECK	APPR.	DESCRIPTIO	DN					Daga	3/
DE	SIG. July	15,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	РГ		Page	152

Trademarks

Microsoft, Windows, Windows Server, Windows Vista, and SharePoint are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.

ISIS and Quick Scan are either registered trademarks or trademarks of EMC Corporation in the United States.

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.

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

How Trademarks are Indicated in This Manual

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

Windows XP:	Windows [®] XP Home Edition (Service Pack 2 or later)
	Windows [®] XP Professional (Service Pack 2 or later)
	Windows [®] XP Professional ×64 Edition
Windows Server 2003:	Windows Server [®] 2003 Standard Edition
	Windows Server [®] 2003 Standard ×64 Edition
	Windows Server [®] 2003 R2 Standard Edition
	Windows Server [®] 2003 R2 Standard ×64 Edition
Windows Vista:	Windows Vista [®] Home Basic (32/64-bit)
	Windows Vista [®] Home Premium (32/64-bit)
	Windows Vista [®] Business (32/64-bit)
	Windows Vista [®] Enterprise (32/64-bit)
	Windows Vista [®] Ultimate (32/64-bit)
Windows Server 2008:	Windows Server [®] 2008 Standard Edition (32/64-bit)
	Windows Server [®] 2008 R2 Standard ×64 Edition
Windows 7:	Windows [®] 7 Home Premium (32/64-bit)
	Windows [®] 7 Professional (32/64-bit)
	Windows [®] 7 Enterprise (32/64-bit)
	Windows [®] 7 Ultimate (32/64-bit)
Microsoft SharePoint Serve	r: Microsoft [®] Office SharePoint [®] Portal Server 2003
	Microsoft [®] Office SharePoint [®] Portal Server 2007

Where there is no distinction between the different versions of the above operating system, the general term "Windows" is used.

 Adobe Acrobat:
 Adobe[®] Acrobat[®]

 All the descriptions in this manual assume the usage of Adobe Acrobat bundled with this product.

 However, Adobe Acrobat may be upgraded without notice. If the descriptions differ from the actual displayed screens, refer to the Adobe Acrobat Help.

									Name	fi-6′ Maintenan	110 Ice N	lanual
03	Dec 20, 11	Yashim	a Ueda	Maki	Refer to Revision Record on page 2.				Drawing			
02	Aug. 2, 10	K.Okad	a A.Miyoshi	I.Fujioka	Refer to Rev	vision Record	on page 2		No.	P1PA03607	7 — E	300X/6
Rev.	DATE	DESIG.	CHECK	APPR.	DESCRIPTIO	DN					Daga	4 /
DES	SIG. July 1	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	РГ		rage	152

Contents

1.1 Scanner Overview 9 1.1.1 Parineres 13 1.1.1 Parineres 14 1.1.1 Parineres 16 1.2.2 Parineres 16 1.2.3 Parineres 17 1.2.4 Stacker Capacity 17 1.2.5 Document Warpage Condition 17 1.2.6 Dacity Barch Stacking 18 1.2.7 Macker Barch Stacking 20 2.1.1 Parineres 20 2.1.1 Dacity Barch Stacker 20 2.1.1.1 Dacity Barch Stacker 20 2.1.1.2 Pariner Configura	Chapter 1 Overview	. 9
11.1 Features 9 11.2 Device Specification 10 11.3 Environmental Specification 12 11.4 Appearance 13 11.5 Operator Panel 13 11.5 Operator Panel 15 12 Document Specification 16 12.1 Paper Size and Weight 16 12.2 Paper Size and Weight 17 12.5 Document Varpage Condition 17 12.6 Document Varpage Condition 17 12.6 Document Varpage Condition 19 Chapter 2 Scanner Configuration 20 2.1 Scanner Configuration 20 2.1 I Description of ADF Section 20 2.1.1 Description of ADF Section 20 2.1.1 Description of ADF Section 21 2.1.2 Randing Station 21 2.1.3 Controllers 22 2.1.3 Controllers 22<	1.1 Scanner Overview	9
11.12 Device Specification 10 11.13 Environmental Specification 12 11.14 Appearance 13 11.15 Operator Panel 15 12.10 Decument Specification 16 12.1 Paper Size and Weight 16 12.2 Document Specification 16 12.1 Paper Size and Weight 16 12.2 Document Specification 17 12.4 Stacker Capacity 17 12.5 Document Uning/Damage on Leading Edge 17 12.6 Document Uning/Damage on Leading Edge 17 12.7 Mixed Batch Samning 20 2.1 Scanner Configuration 20 2.1 Loserption of ADP Section 20 2.1.1 Description of ADP Section 20 2.1.1 Discription of ADP Section 21 2.1.2 Reading Station 21 2.1.3 Controller 22 2.1.3 Controller 22 2.1.3 Controller 22 2.1.3 Contro	1.1.1 Features	9
11.1 3 Environmental Specification 12 11.4 Appearance 13 11.5 Operator Panel 15 12.1 Document Specification 16 12.1 Paper Size and Weight 16 12.2 Paper Type 16 12.3 Landing Capacity 17 12.4 Stacker Capacity 17 12.5 Document Wangage Condition 17 12.6 Document Wangage Condition 19 Chapter 2 Scanner Configuration 20 2.1.1 Description of ADF Section 20 2.1.1 Discription of ADF Section 20 2.1.1 Inside of ADF 20 2.1.1 Discription of ADF Section 20 2.1.2 Reading Station 21 2.1.2 Reading Station 21 2.1.2 Reading Station 21 2.1.3 Driving Unit 21 2.1.2 Reading Station 22 2.1.3 Logit Sustem 21 2.1.3 Logit Sustem 22 2.1.3 Controller 22	1.1.2 Device Specification	10
114 Appearance 13 1.15 Operator Panel 15 1.2 Document Specification 16 1.2 I Paper Size and Weigh 16 1.2.1 Paper Type 16 1.2.2 Toper Type 16 1.2.3 Laading Capacity. 17 1.2.4 Stacker Capacity 17 1.2.5 Document Warpage Condition 17 1.2.6 Document Configuration 18 1.2.7 Mixed Batch Scanning 18 1.2.8 Conditions for Multifeed Detection 19 2.1 Scanner Configuration 20 2.1 I Inside of ADF Section 20 2.1.1 Inside of ADF Section 20 2.1.1 Diving Linion Typer Feed 20 2.1.1 Diving Linion Typer Feed 21 2.1.2 Optical System 21 2.1.3 Driving Linion Typer Feed 22 2.1.3 Controllers 22	1.1.3 Environmental Specification	12
11.3 Operator Panel 15 1.2 Document Specification 16 1.2.1 Paper Size and Weight 16 1.2.1 Paper Size and Weight 16 1.2.1 Paper Size and Weight 17 1.4 Stacker Capacity 17 1.4 Stacker Capacity 17 1.4 Stacker Capacity 17 1.2 A Stacker Capacity 18 2.1 Scanner Configuration 20 2.1.1 Inside of ADF 20 2.1.1 Inside of ADF 20 2.1.1 Inside of ADF 20 2.1.2 Indepres Separation Paper Feed 20 2.1.2 Indepres 21 2.1.3 Driving Unit 21 2.1.2 Loptical System 21 2.1.3 Control IPCA 22	1.1.4 Appearance	13
1.2 Document Specification 16 1.2.1 Paper Size and Weight 16 1.2.2 Paper Type 16 1.2.3 Loading Capacity. 17 1.4.3 Stacker Capacity 17 1.2.4 Stacker Capacity 17 1.2.5 Document Warpage Condition 17 1.2.6 Document Curling/Damage on Leading Edge 17 1.2.7 Mixed Batch Samming. 18 1.2.8 Conditions for Multifeed Detection 19 Chapter 2 Scanner Configuration 20 2.1 1 Description of ADF Section 20 2.1.1 Discription of ADF Section 20 2.1.1 Paper Separation/Paper Feed 20 2.1.1 Z Rading Station 21 2.1.2 Light Source 21 2.1.3 Controllers 22 2.1.3 Controllers 22 2.1.3 Controllers 22 2.1.3 Controller 22 2.1.3 Controllers 22 2.1.3 Controllers 22 2.2.1.1 Brokage ande AAC 22 2.3.2 Installation 24 3.1 Unpacking the Scanner 26 3.2 Software 25 3.2 Softwa	1.1.5 Operator Panel	15
12.1 Paper Size and Weight 16 12.2 Paper Type 16 12.3 Loading Capacity 17 12.4 Stacker Capacity 17 12.4 Stacker Capacity 17 12.5 Document Warpage Condition 17 12.6 Document Curling/Damage on Leading Edge 17 12.7 Mixed Batch Scanning 18 12.8 Conditions for Multifeed Detection 20 2.1 Description of ADF Section 20 2.1.1 Inside of ADF 20 2.1.1 Description of ADF Section 20 2.1.1 Paper Separation*Paper Feed 20 2.1.1 Paper Separation*Paper Feed 20 2.1.2 Controllers 21 2.1.2 Light Source 21 2.1.3 Controller 21 2.1.3 Controller 22	1.2 Document Specification	16
12.2 Paper Type 16 12.3 Loading Capacity 17 12.3 Loading Capacity 17 12.4 Stucker Capacity 17 12.5 Document Warpage Condition 17 12.6 Document Curling/Damage on Leading Edge 17 12.7 Mixed Batch Scanning 18 12.8 Conditions for Multifeed Detection 19 Chapter Z Scanner Configuration 20 2.1 I.Scanner Configuration 20 2.1.1 Scanner Configuration 20 2.1.1 Paper Separation/Paper Feed 20 2.1.1.2 Taper Separation/Paper Feed 20 2.1.1.2 Taper Separation/Paper Feed 21 2.1.2 Light Source 21 2.1.3 Controllers 22 2.1.3 Controllers 22 2.1.3 Controllers 22 2.1.3 Controllers 22 2.1.3 Controllers 23 2.1.3 Controllers 23 2.2.1.3 Controllers 23 2.3.2 Installing the Scanner 24 3.1.1 Unpacking: 24 3.1.1 Unpacking the Apperance and Accessories 25 3.2 Installing the Scanner 27 <td>1.2.1 Paper Size and Weight</td> <td>16</td>	1.2.1 Paper Size and Weight	16
12.3 Loading Capacity. 17 12.4 Stucker Capacity. 17 12.4 Stucker Capacity. 17 12.5 Document Warpage Condition 17 12.6 Document Warpage Condition 17 12.7 Mixed Batch Scanning. 18 12.8 Conditions for Multifeed Detection. 19 Chapter 2 Scanner Configuration 20 2.1 Scanner Configuration 20 2.1.1 Description of ADF Section 20 2.1.1 Description of ADF Section 20 2.1.1 Paper Separation/Paper Feed 20 2.1.1 Station 21 2.1.2 Taper Separation/Paper Feed 20 2.1.3 Driving Unit 21 2.1.2 Light Source 21 2.1.3 Driving Unit 21 2.1.2 Light Source 21 2.1.3 Sean Controller 21 2.1.3 Control PCA 22 2.1.3 Panel PCA 22 2.1.4 Cricuit Biock Diagram. 23 2.1 Unpacking the Scanner.	1.2.2 Paper Type	16
12.4 Stacker Capacity 17 12.5 Document Curing/Damage on Leading Edge 17 12.6 Conditions for Multifeed Detection 19 Chapter 2 Scanner Configuration 20 2.1 Scanner Configuration 20 2.1 Scanner Configuration 20 2.1 Scanner Configuration 20 2.1.1 Inside of ADF Section 20 2.1.1 Paper Separation/Paper Feed 20 2.1.1 2 Paper Separation/Paper Feed 20 2.1.2 Reading Station 21 2.1.2 Light Source 21 2.1.3 Controllers 22 2.1.3 Controllers 23 2.1.1 Unpacking the Seanner 24 3.1 Unpacking 24 3.1.1 Unpacking the Seanner 26 3.2 Installing the Seanner 26 3.2	1.2.3 Loading Capacity	17
12.5 Document Warpage Condition 17 12.6 Document Guring/Damage on Leading Edge 17 12.7 Mixed Batch Scanning 18 12.8 Conditions for Multifeed Detection 19 Chapter 2 Scanner Configuration 20 2.1 I Description of ADF Section 20 2.1.1 Discription of ADF Section 20 2.1.1 Discription of ADF Section 20 2.1.1 Discription of ADF Section 20 2.1.1 Z Paper Separation/Paper Feed 20 2.1.2 Ta Reading Station 21 2.1.2 Reading Station 21 2.1.2 Jught Source 21 2.1.2 Jught Source 21 2.1.3 Controllers 22 2.1.3 Panel PCA 22 2.1.3 Panel PCA 22 2.1.3 Cricruit Block Diagram. 24 3.1 Unpacking the Scanner 24 3.1 Unpacking the Scanner 26 3.2 Installation 26 3.2 Installing the Scanner 29 Chapter 4 Maintenance Parts List 30 4.1 Maintenance Parts List 30 4.1 Maintenance Parts List 33 4.2 Souidi PASY	1.2.4 Stacker Capacity	17
1.2.6 Document Curling/Damage on Leading Edge 17 1.2.7 Mixed Batch Scanning. 18 1.2.8 Conditions for Multifeed Detection 19 Chapter 2 Scanner Configuration 20 2.1.1 Scanner Configuration 20 2.1.1 Scanner Configuration 20 2.1.1 Description of ADF Section 20 2.1.1 Discipation 20 2.1.1 Discipation 20 2.1.1 Discipation 21 2.1.2 Paper Separation/Paper Feed 20 2.1.3 Driving Unit 21 2.1.2 Light Source 21 2.1.3 Controllers 22 2.1.3 ControllerA 22 2.1.3 Panel PCA 22 2.1.3 ControllerA 22 <td< td=""><td>1.2.5 Document Warpage Condition</td><td>17</td></td<>	1.2.5 Document Warpage Condition	17
12.7 Mixed Batch Scanning. 18 1.2.8 Conditions for Multifeed Detection 19 20 2.1 Scanner Configuration 20 2.1 I Description of ADF Section 20 2.1.1 I I I I I I I I I I I I I I I I I I	1.2.6 Document Curling/Damage on Leading Edge	17
1.2.8 Conditions for Multifeed Detection 19 Chapter 2 Scanner Configuration 20 2.1 Scanner Configuration 20 2.1.1 Description of ADF Section 20 2.1.2 Lagent Segmation Paper Feed 20 2.1.2 Lagent Segmation Paper Feed 21 2.1.2 Lagent Segmation Paper Feed 21 2.1.2 Light Source 21 2.1.3 Light Source 22 2.1.3 Light Source 22 2.1.3 Controllers 22 2.1.3 Control PCA 22 3.1 Checking the Appearance and Ac	1.2.7 Mixed Batch Scanning	18
Chapter 2 Scanner Configuration 20 2.1 Scanner Configuration 20 2.1.1 Isside of ADF 20 2.1.1 Inside of ADF 20 2.1.1 Paper Separation/Paper Feed 20 2.1.1.2 Paper Separation/Paper Feed 20 2.1.2 Diving Unit 21 2.1.2 Leading Station 21 2.1.2 Light System 21 2.1.3 Controllers 22 2.1.3 Controllers 22 2.1.3 Controller 22 2.1.3 Chapter A Internance 3.1 Unpacking 24	1.2.8 Conditions for Multifeed Detection	19
2.1 Scanner Configuration 20 2.1.1 Description of ADF Section 20 2.1.1.1 Inside of ADF 20 2.1.1.2 Paper Separation/Paper Feed 20 2.1.2 Paper Separation/Paper Feed 21 2.1.2 Reading Station 21 2.1.2 Light Source 21 2.1.3 Controller 21 2.1.3 Controller 22 2.1.3 Controller 22 2.1.3 Control PCA 22 3.1 Unpacking 24 3.1 Unpacking the Scanner 24 3.2 Installing the Scanner 25 <td>Chapter 2 Scanner Configuration</td> <td>20</td>	Chapter 2 Scanner Configuration	20
2.1.1 Description of ADF Section 20 2.1.1.1 Inside of ADF 20 2.1.1.2 Paper Separation/Paper Fed 20 2.1.2 Paper Separation/Paper Fed 20 2.1.2 Paper Separation/Paper Fed 21 2.1.2 Reading Station 21 2.1.2 Light Source 21 2.1.2 Light Source 21 2.1.3 Controllers 22 2.1.3 Controller CA 22 2.1.3 Controller CA 22 2.1.3 A Controller CA 22 2.1.3 A Control PCA 22 2.1.3 A Panel PCA 22 2.1.3 A Control IPCA 22 2.1.3 A Control IPCA 22 2.1.3 A Panel PCA 22 2.1.3 A Panel PCA 22 2.1.3 A Panel PCA 22 2.1.3 A Control IPCA 22 2.1.3 A Panel PCA 22 2.1.3 A Control IPCA 22 2.1.3 A Control IPCA 22 3.1 Unpacking 24 3.1 Unpacking 24 3.1 Unpacking 24 3.2 Installing the Scanner 25 3.2 Installing the Scanner	2.1 Scanner Configuration	20
21.11 Paide of ADF 20 21.12 Paper Separation/Paper Feed 20 21.13 Driving Unit 21 21.2 Reading Station 21 21.1 2 Optical System 21 21.2 1 2 Light Source 21 21.2 1 2 Light Source 21 21.3 Controllers 22 21.3 Controllers 22 21.3 J Control PCA 22 21.3 J Control PCA 22 21.3 A Chrouit Block Diagram 23 Chapter 3 Installation 24 3.1 Unpacking 24 3.1 Unpacking the Scanner 26 3.2 Installing the Scanner 26 3.2 Installing the Scanner 26 3.2 Inor Safety Installation 26 3.2 Software 26 3.2 Software 26 3.2 Liner Safety Installation 26 3.2 Liner Safety Installation 26 3.2 Software 27 3.2 A Installing the Scanner 29 Chapter 4 Maintenance Parts 30 4.1 Adjustments after Maintenance Parts Replacement 32 4.2 Spocifications / Appearances of Maintenance P	2.1.1 Description of ADF Section	20
2.1.1.2 Paper Separation/Paper Feed 20 2.1.1.3 Driving Unit 21 2.1.2 Reading Station 21 2.1.2 I Optical System 21 2.1.2 Light Source 21 2.1.2 Light Source 21 2.1.3 Controllers 22 2.1.3 Controllers 22 2.1.3 Controllers 22 2.1.3 Controllers 22 2.1.3 A long PCA 22 2.1.3 J Control PCA 22 2.1.3 J Panel PCA 22 2.1.3 J Panel PCA 22 2.1.3 J Panel PCA 23 Chapter 3 Installation 26 3.1 Unpacking the Scanner 24 3.1.1 Unpacking the Scanner 24 3.1.2 Checking the Appearance and Accessories 25 3.2 Installing the Scanner 26 3.2.1 For Safety Installation 26 3.2.2 Software 26 3.2.3 Installing the Bundled Software 27 3.2.4 Installation 26 3.2.3 Installing the Scanner 29 2.4 I Statiling the Scanner 29 2.5 Optivare 30 <	2.1.1.1 Inside of ADF	20
2.1.1.3 Driving Unit 21 2.1.2 Reading Station 21 2.1.2.1 Optical System 21 2.1.2.2 Light Source 21 2.1.2.3 Controllers 21 2.1.3 Controllers 22 2.1.3 Controllers 22 2.1.3 Controllers 22 2.1.3 Controllers 22 2.1.3 Analog PCA 22 2.1.3 A Controllers 22 2.1.3 A Uricuit Block Diagram 23 Chapter 3 Installation 24 3.1 Unpacking the Scanner 24 3.1.2 Uneaking the Appearance and Accessories 25 3.2 I Installing the Scanner 26 3.2.1 For Safety Installation 26 3.2.2 Software 26 3.2.3 Installing the Bundled Software 27 3.2.4 Installing the Bundled Software 29 Chapter 4 Maintenance Parts 30 4.1 Maintenance Parts List 30 4.1.1 Adjustments after Maintenance Parts Replacement 32 4.2 Specifications / Appearances of Maintenance Parts 33 4.2 Control PCA 33 4.2 Control PCA 33 </td <td>2.1.1.2 Paper Separation/Paper Feed</td> <td>20</td>	2.1.1.2 Paper Separation/Paper Feed	20
2.1.2 Reading Station 21 2.1.2 Optical System. 21 2.1.2 1 Optical System. 21 2.1.2 2 Light Source 21 2.1.3 Controllers 22 2.1.3 Controllers 22 2.1.3 Control PCA 22 2.1.3 Panel PCA 22 2.1.3 A Circuit Block Diagram 23 Chapter 3 Installation 24 3.1 Unpacking 24 3.1.1 Unpacking the Scanner 24 3.1.2 Checking the Appearance and Accessories 25 3.2 Installing the Scanner. 26 3.2.1 For Safety Installation 26 3.2.2 Software 26 3.2.3 Installing the Bundled Software 27 3.2 A Installing the Beanner 29 Chapter 4 Maintenance Parts 30 4.1 A dijustiments after Maintenance Parts Replacement 32 4.2 Specifications / Appearances of Maintenance Parts 33 4.2.2 Chaule ASSY (ADF Paper Chute) 33 4.2.3 Chute ASSY (ADF Paper Chute) 33 4.2.4 Stacker ASSY 34 4.2.5 Guide P ASSY 34 4.2.6 Guide A	2.1.1.3 Driving Unit	21
21.1 Optical System 21 21.2.2 Light Source 21 21.3.3 Controllers 22 21.3.1 Control PCA 22 21.3.2 Controllers 22 21.3.4 Circuit Block Diagram 23 Chapter 3 Installation 24 3.1 Unpacking the Scanner 24 3.1.2 Checking the Appearance and Accessories 25 3.2 Installing the Scanner. 26 3.2.1 For Safety Installation 26 3.2.2 Software 26 3.2.3 Unpacking the Scanner. 26 3.2.4 Installing the Bundled Software 27 3.2.4 Installing the Bundled Software 27 3.2.4 Installing the Scanner. 29 Chapter 4 Maintenance Parts 30 4.1 Adjustments after Maintenance Parts 30 4.1 Adjustments after Maintenance Parts 33 4.2 Specifications / Appearances of Maintenance Parts 33 4.2 Specifications / Appearances of Maintenance Parts 33 4.2 Could PASY 34 4.2 Stacker ASSY 34 4.2 Stacker ASSY 34 4.2 Stacker ASSY 34 4.2.	2.1.2 Reading Station	21
2.1.2.2 Light Source 21 2.1.3 Controllers 22 2.1.3.1 Control PCA 22 2.1.3.2 Analog PCA 22 2.1.3.3 Panel PCA 22 2.1.3.4 Circuit Block Diagram 23 Chapter 3 Installation 24 3.1 Unpacking 24 3.1.1 Unpacking 24 3.1.2 Checking the Appearance and Accessories 25 3.2 Installing the Scanner 26 3.2.1 For Safety Installation 26 3.2.2 Software 26 3.2.3 Installing the Bundled Software 26 3.2.3 Installing the Scanner 29 Chapter 4 Maintenance Parts 30 4.1 Adjustments after Maintenance Parts Replacement 30 4.1 Adjustments after Maintenance Parts Replacement 33 4.2 Specifications / Appearances of Maintenance Parts 33 4.2.1 Control PCA 33 4.2.2 Could PCA 33 4.2.3 Chute ASSY (ADF Paper Chute) 33 4.2.4 Stacker ASSY 34 4.2.5 Guide P ASSY 34 4.2.6 Guide A 34 4.2.7 Top Cover ASSY 35	2.1.2.1 Optical System	21
21.3 Controllers 22 2.1.3 Control PCA 22 2.1.3 J Control PCA 22 2.1.3 Panel PCA 22 2.1.3 4 Circuit Block Diagram 23 Chapter 3 Installation 24 3.1 Unpacking the Scanner 24 3.1 Unpacking the Scanner 24 3.1.1 Unpacking the Scanner 26 3.2 Installing the Scanner 26 3.2.1 For Safety Installation 26 3.2.2 Software 26 3.2.1 For Safety Installation 26 3.2.2 Software 26 3.2.3 Installing the Bundled Software 27 3.2.4 Installing the Scanner 29 Chapter 4 Maintenance Parts 30 4.1 Maintenance Parts List 30 4.1 Adjustments after Maintenance Parts Replacement 32 4.2 Specifications / Appearances of Maintenance Parts 33 4.2.3 Chute ASSY (ADF Paper Chute) 33 4.2.4 Stacker ASSY 34 4.2.5 Guide P ASSY 34 4.2.6 Guide A 34 4.2.7 Top Cover ASSY 35 4.2.8 Revolve Unit 35	2.1.2.2 Light Source	21
2.1.3.1 Control PCA 22 2.1.3.2 Analog PCA 22 2.1.3.3 Panel PCA 22 2.1.3.4 Circuit Block Diagram 23 Chapter 3 Installation 24 3.1 Unpacking the Scanner. 24 3.1.1 Unpacking the Appearance and Accessories 25 3.2 Installing the Scanner. 26 3.2.1 For Safety Installation 26 3.2.2 Software 26 3.2.3 Installing the Scanner. 26 3.2.1 For Safety Installation 26 3.2.2 Software 26 3.2.3 Installing the Bundled Software 27 3.2.4 Installing the Scanner 29 Chapter 4 Maintenance Parts 30 4.1.1 Adjustments after Maintenance Parts Replacement. 32 4.2 Specifications / Appearances of Maintenance Parts 33 4.2.2 Analog PCA 33 4.2.3 Chute ASSY 34 4.2.4 Stacker ASSY 34 4.2.5 Guide P ASSY 35 4.2.8 Revolve Unit. 35 4.2.9 Lamp 36 4.2.10 Inverter 36 4.2.10 Inverter 36	2.1.3 Controllers	22
2.1.3.2 Analog PCA 22 2.1.3.3 Panel PCA 22 2.1.3.4 Circuit Block Diagram. 23 Chapter 3 Installation 24 3.1 Unpacking 24 3.1.1 Unpacking the Scanner. 24 3.1.2 Checking the Appearance and Accessories 25 3.2 Installing the Scanner. 26 3.2.1 For Safety Installation 26 3.2.2 Software 26 3.2.3 Installing the Bundled Software 27 3.2.4 Installing the Scanner. 26 3.2.3 Installing the Bundled Software 27 3.2.4 Installing the Scanner. 29 Chapter 4 Maintenance Parts 30 4.1 Maintenance Parts 30 4.1 Maintenance Parts Replacement 32 4.2 Specifications / Appearances of Maintenance Parts 33 4.2.3 Chute ASSY (ADF Paper Chute) 33 4.2.4 Stacker ASSY 34 4.2.5 Guide P ASSY 34 4.2.6 Guide A 34 4.2.7 Top Cover ASSY 35 4.2.8 Revolve Unit 35 4.2.9 Lamp 36 4.2.10 Inverter 36 <td>2.1.3.1 Control PCA</td> <td>22</td>	2.1.3.1 Control PCA	22
2.1.3.3 Panel PCA 22 2.1.3.4 Circuit Block Diagram. 23 Chapter 3 Installation. 24 3.1 Unpacking 24 3.1.1 Unpacking the Scanner. 24 3.1.2 Checking the Appearance and Accessories 25 3.2 Installing the Scanner. 26 3.2.1 Installing the Scanner. 26 3.2.2 Software 26 3.2.3 Installing the Bundled Software 27 3.2.4 Installing the Scanner 29 Chapter 4 Maintenance Parts 30 4.1 Maintenance Parts 30 4.1 Maintenance Parts List. 30 4.1 Adjustments after Maintenance Parts Replacement. 32 4.2 Specifications / Appearances of Maintenance Parts 33 4.2.1 Control PCA 33 4.2.3 Chute ASSY (ADF Paper Chute) 33 4.2.4 Stacker ASSY 34 4.2.5 Guide P ASSY 34 4.2.6 Guide A 34 4.2.7 Top Cover ASSY 35 4.2.8 Revolve Unit. 35 4.2.9 Lamp 36 4.2.10 Inverter 36 4.2.10 Inverter 36 <t< td=""><td>2.1.3.2 Analog PCA</td><td>22</td></t<>	2.1.3.2 Analog PCA	22
2.1.3.4 Circuit Block Diagram. 23 Chapter 3 Installation	2.1.3.3 Panel PCA	22
Chapter 5 Installation 24 3.1 Unpacking 24 3.1.1 Unpacking the Scanner. 24 3.1.2 Checking the Appearance and Accessories 25 3.2 Installing the Scanner. 26 3.2.1 For Safety Installation 26 3.2.2 Software 26 3.2.3 Installing the Bundled Software 26 3.2.3 Installing the Bundled Software 26 3.2.3 Installing the Scanner. 26 3.2.4 Installing the Scanner. 29 Chapter 4 Maintenance Parts 30 4.1 Maintenance Parts List 30 4.1 Maintenance Parts Replacement 32 4.2 Specifications / Appearances of Maintenance Parts 33 4.2.1 Control PCA 33 4.2.2 Analog PCA 33 4.2.3 Chute ASSY (ADF Paper Chute) 33 4.2.4 Stacker ASSY 34 4.2.5 Guide P ASSY 34 4.2.6 Guide A 34 4.2.7 Top Cover ASSY 35 4.2.8 Revolve Unit. 35 4.2.9 Lamp 36 4.2.10 Inverter 36 4.2.10 Inverter 36	2.1.3.4 Circuit Block Diagram	23
3.1 Unpacking 24 3.1.1 Unpacking the Scanner. 24 3.1.2 Checking the Appearance and Accessories 25 3.2 Installing the Scanner. 26 3.2.1 For Safety Installation 26 3.2.2 Software 26 3.2.3 Installing the Bundled Software 27 3.2.4 Installing the Scanner. 29 Chapter 4 Maintenance Parts 30 4.1 Maintenance Parts List. 30 4.1 Maintenance Parts List. 30 4.1 Adjustments after Maintenance Parts Replacement. 32 4.2 Specifications / Appearances of Maintenance Parts 33 4.2.1 Control PCA 33 4.2.3 Chute ASSY (ADF Paper Chute) 33 4.2.4 Stacker ASSY 34 4.2.5 Guide P ASSY 34 4.2.7 Top Cover ASSY 34 4.2.7 Top Cover ASSY 35 4.2.8 Revolve Unit. 35 4.2.9 Lamp 36 4.2.10 Inverter 36 <t< td=""><td>2.1 Unevention</td><td>24</td></t<>	2.1 Unevention	24
3.1.1 Objacking the Appearance and Accessories 24 3.1.2 Checking the Appearance and Accessories 25 3.2 Installing the Scanner. 26 3.2.1 For Safety Installation 26 3.2.2 Software 26 3.2.3 Installing the Bundled Software 26 3.2.4 Installing the Bundled Software 27 3.2.4 Installing the Scanner. 29 Chapter 4 Maintenance Parts 30 4.1 Maintenance Parts List. 30 4.1.1 Adjustments after Maintenance Parts Replacement. 32 4.2 Specifications / Appearances of Maintenance Parts 33 4.2.1 Control PCA 33 4.2.2 Analog PCA 33 4.2.3 Chute ASSY (ADF Paper Chute) 33 4.2.4 Stacker ASSY 34 4.2.7 Top Cover ASSY 34 4.2.7 Top Cover ASSY 35 4.2.8 Revolve Unit. 35 4.2.9 Lamp 36 4.2.10 Inverter 36 4.2.12 Panel PCA 37	2.1.1 Unpacking	24
3.1.2 Creeking the Appearance and Accessories253.2 Installing the Scanner263.2.1 For Safety Installation263.2.2 Software263.2.3 Installing the Bundled Software273.2.4 Installing the Scanner29Chapter 4 Maintenance Parts304.1 Maintenance Parts List304.1 Maintenance Parts List304.1 Adjustments after Maintenance Parts Replacement324.2 Specifications / Appearances of Maintenance Parts334.2.1 Control PCA334.2.2 Analog PCA334.2.3 Chute ASSY (ADF Paper Chute)334.2.4 Stacker ASSY344.2.5 Guide P ASSY344.2.7 Top Cover ASSY354.2.8 Revolve Unit354.2.9 Lamp364.2.10 Inverter364.2.10 Inverter364.2.12 Panel PCA37	3.1.1 Unpacking the Scanner	24
3.2 Installing the Scanner 26 3.2.1 For Safety Installation 26 3.2.2 Software 26 3.2.3 Installing the Bundled Software 27 3.2.4 Installing the Scanner 29 Chapter 4 Maintenance Parts 30 4.1 Maintenance Parts List 30 4.1.1 Adjustments after Maintenance Parts Replacement 32 4.2 Specifications / Appearances of Maintenance Parts 33 4.2.1 Control PCA 33 4.2.2 Analog PCA 33 4.2.3 Chute ASSY (ADF Paper Chute) 33 4.2.4 Stacker ASSY 34 4.2.5 Guide P ASSY 34 4.2.6 Guide A 34 4.2.7 Top Cover ASSY 35 4.2.8 Revolve Unit. 35 4.2.9 Lamp 36 4.2.10 Inverter 36 4.2.10 Inverter 36 4.2.12 Panel PCA 37	3.1.2 Checking the Appearance and Accessories	25
3.2.1 For Safety Installation 26 3.2.2 Software 26 3.2.3 Installing the Bundled Software 27 3.2.4 Installing the Scanner 29 Chapter 4 Maintenance Parts 30 4.1 Maintenance Parts List 30 4.1 Maintenance Parts List 30 4.1 Adjustments after Maintenance Parts Replacement 32 4.2 Specifications / Appearances of Maintenance Parts 33 4.2 Control PCA 33 4.2 Control PCA 33 4.2 Stacker ASSY 34 4.2 Sourd PASSY 34 4.2 Guide A 34 4.2 Guide A 34 4.2 Guide A 34 4.2 Top Cover ASSY 35 4.2 B Revolve Unit 35 4.2 Nump 36 4.2 10 Inverter 36 </td <td>3.2 Installing the Scanner.</td> <td>26</td>	3.2 Installing the Scanner.	26
3.2.2 Software263.2.3 Installing the Bundled Software273.2.4 Installing the Scanner29Chapter 4 Maintenance Parts304.1 Maintenance Parts List304.1.1 Adjustments after Maintenance Parts Replacement324.2 Specifications / Appearances of Maintenance Parts334.2.1 Control PCA334.2.2 Analog PCA334.2.3 Chute ASSY (ADF Paper Chute)334.2.4 Stacker ASSY344.2.5 Guide P ASSY344.2.6 Guide A344.2.7 Top Cover ASSY354.2.8 Revolve Unit354.2.9 Lamp364.2.10 Inverter364.2.11 Optical Unit364.2.12 Panel PCA37	3.2.1 For Safety Installation	26
3.2.3 Installing the Bundled Software2/3.2.4 Installing the Scanner29Chapter 4 Maintenance Parts304.1 Maintenance Parts List304.1.1 Adjustments after Maintenance Parts Replacement324.2 Specifications / Appearances of Maintenance Parts334.2.1 Control PCA334.2.2 Analog PCA334.2.3 Chute ASSY (ADF Paper Chute)334.2.4 Stacker ASSY344.2.5 Guide P ASSY344.2.6 Guide A344.2.7 Top Cover ASSY354.2.8 Revolve Unit354.2.9 Lamp364.2.10 Inverter364.2.11 Optical Unit364.2.12 Panel PCA37		26
3.2.4 Installing the Scanner29Chapter 4Maintenance Parts304.1 Maintenance Parts List304.1 Adjustments after Maintenance Parts Replacement324.2 Specifications / Appearances of Maintenance Parts334.2.1 Control PCA334.2.2 Analog PCA334.2.3 Chute ASSY (ADF Paper Chute)334.2.4 Stacker ASSY344.2.5 Guide P ASSY344.2.6 Guide A344.2.7 Top Cover ASSY354.2.8 Revolve Unit354.2.9 Lamp364.2.10 Inverter364.2.11 Optical Unit364.2.12 Panel PCA37	3.2.3 Installing the Bundled Software	27
Chapter 4Maintenance Parts304.1 Maintenance Parts List.304.1.1 Adjustments after Maintenance Parts Replacement.324.2 Specifications / Appearances of Maintenance Parts334.2.1 Control PCA334.2.2 Analog PCA334.2.3 Chute ASSY (ADF Paper Chute)334.2.4 Stacker ASSY344.2.5 Guide P ASSY344.2.6 Guide A344.2.7 Top Cover ASSY354.2.8 Revolve Unit.354.2.9 Lamp364.2.10 Inverter364.2.12 Panel PCA37	3.2.4 Installing the Scanner	29
4.1 Maintenance Parts List.304.1.1 Adjustments after Maintenance Parts Replacement.324.2 Specifications / Appearances of Maintenance Parts334.2.1 Control PCA.334.2.2 Analog PCA334.2.3 Chute ASSY (ADF Paper Chute)334.2.4 Stacker ASSY344.2.5 Guide P ASSY344.2.6 Guide A344.2.7 Top Cover ASSY354.2.8 Revolve Unit.354.2.9 Lamp364.2.10 Inverter364.2.12 Panel PCA37	Chapter 4 Maintenance Parts	30
4.1.1 Adjustments after Maintenance Parts Replacement324.2 Specifications / Appearances of Maintenance Parts334.2.1 Control PCA334.2.2 Analog PCA334.2.3 Chute ASSY (ADF Paper Chute)334.2.4 Stacker ASSY344.2.5 Guide P ASSY344.2.6 Guide A344.2.7 Top Cover ASSY354.2.8 Revolve Unit354.2.9 Lamp364.2.10 Inverter364.2.11 Optical Unit364.2.12 Panel PCA37	4.1 Maintenance Paris List	30
4.2 Specifications / Appearances of Maintenance Parts334.2.1 Control PCA334.2.2 Analog PCA334.2.3 Chute ASSY (ADF Paper Chute)334.2.4 Stacker ASSY344.2.5 Guide P ASSY344.2.6 Guide A344.2.7 Top Cover ASSY354.2.8 Revolve Unit354.2.9 Lamp364.2.10 Inverter364.2.12 Panel PCA37	4.1.1 Adjustments after Maintenance Parts Replacement.	32
4.2.1 Control PCA 33 4.2.2 Analog PCA 33 4.2.3 Chute ASSY (ADF Paper Chute) 33 4.2.4 Stacker ASSY 34 4.2.5 Guide P ASSY 34 4.2.6 Guide A 34 4.2.7 Top Cover ASSY 35 4.2.8 Revolve Unit. 35 4.2.9 Lamp 36 4.2.10 Inverter 36 4.2.12 Panel PCA 37	4.2 Specifications / Appearances of Maintenance Parts	33
4.2.2 Analog PCA 33 4.2.3 Chute ASSY (ADF Paper Chute) 33 4.2.4 Stacker ASSY 34 4.2.5 Guide P ASSY 34 4.2.6 Guide A 34 4.2.7 Top Cover ASSY 35 4.2.8 Revolve Unit. 35 4.2.9 Lamp 36 4.2.10 Inverter 36 4.2.12 Panel PCA 37	4.2.1 Control PCA	33
4.2.3 Chute ASSY (ADF Paper Chute) 33 4.2.4 Stacker ASSY 34 4.2.5 Guide P ASSY 34 4.2.6 Guide A 34 4.2.7 Top Cover ASSY 35 4.2.8 Revolve Unit. 35 4.2.9 Lamp 36 4.2.10 Inverter 36 4.2.12 Panel PCA 37	4.2.2 Analog PCA	33
4.2.4 Stacker ASSY 34 4.2.5 Guide P ASSY 34 4.2.6 Guide A 34 4.2.7 Top Cover ASSY 35 4.2.8 Revolve Unit. 35 4.2.9 Lamp 36 4.2.10 Inverter 36 4.2.12 Panel PCA 37	4.2.3 Chute ASSY (ADF Paper Chute)	33
4.2.5 Guide P ASSY 34 4.2.6 Guide A 34 4.2.7 Top Cover ASSY 35 4.2.8 Revolve Unit. 35 4.2.9 Lamp 36 4.2.10 Inverter 36 4.2.12 Panel PCA 37	4.2.4 Stacker ASSY	34
4.2.6 Guide A 34 4.2.7 Top Cover ASSY 35 4.2.8 Revolve Unit. 35 4.2.9 Lamp 36 4.2.10 Inverter 36 4.2.11 Optical Unit 36 4.2.12 Panel PCA 37	4.2.5 Guide P ASSY	34
4.2.7 Top Cover ASSY 35 4.2.8 Revolve Unit 35 4.2.9 Lamp 36 4.2.10 Inverter 36 4.2.11 Optical Unit 36 4.2.12 Panel PCA 37	4.2.6 Guide A	34
4.2.8 Revolve Unit	4.2.7 Top Cover ASSY	35
4.2.9 Lamp 36 4.2.10 Inverter 36 4.2.11 Optical Unit 36 4.2.12 Panel PCA 37	4.2.8 Revolve Unit	35
4.2.10 Inverter 36 4.2.11 Optical Unit 36 4.2.12 Panel PCA 37	4.2.9 Lamp	36
4.2.11 Optical Unit 36 4.2.12 Panel PCA 37	4.2.10 Inverter	36
4.2.12 Panel PCA	4.2.11 Optical Unit	36
	4.2.12 Panel PCA	37

										Name	fi-6 Maintenar	110 1ce N	lanual
03	Dec	c 20, 11	Yashima	Ueda	Maki	Refer to Rev	ision Record	on page 2	•	Drawing			
02	Au	g. 2, 10	K.Okada	A.Miyoshi	I.Fujioka	Refer to Rev	ision Record	on page 2		No.	P1PA0360	7 — E	300X/6
Rev.	D	ATE	DESIG.	CHECK	APPR.	DESCRIPTIC	N			DE		Daga	5/
DE	SIG.	July 15	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	РГ		Page	/152

									Name	Maintenance Manual	
 	- copiac								[[fi_6110	
6.8	Renlac	2 ing	the Out	ter Cov	ers			••••••			61
6	.7.1 Con	trol F	PCA / A	nalog PC	CA						. 59
67	Remov	ving	the Co	ntrol R	ne, USD			•••••	•••••		. 50 50
66	Remov	i-uisa	the Do	ver Col	space UISP	Cable					. <i>51</i> 58
0.3	INOII-O	15aSS	cilluly	raits)ntical Uni			•••••			. 31 57
0. 65	Non d	i Una	n List	Darta							. 30 57
6. C	4.1 Mai	intena	ince 100	DI LIST							. 30 54
6.4	Mainte	enan	ce 100	IS							. 36
6.	.3.1 Opt			 1							. 55
6.3	Cleani	ng	 т. •/	•••••							. 55
6.	.2.1 Peri	odic	Mainten	ance Iter	ms						. 55
6.2	Period	ic M	aintena	ance				•••••			. 55
6.1	For Sa	tety	Operat	10n				•••••			. 54
Chaj	pter 6	M	lainte	nance	Proced	ure	•••••	•••••	•••••	••••••	54
C	5.1.4.8	Whit	te area o	f scanne	d image is	not correc	et				. 53
	5.1.4.7	Vert	ical strea	aks appea	ar in scann	ed image.		-			. 53
	5.1.4.6	Scan	magnif	ication e	rror is too	large (Sub	-scanning	g direction: Ve	rtical)	,	. 53
	5.1.4.4	Scan	magnif	ge is mis	rror is too	large (Mai	in scanni	ng direction: H	orizontal)	. 52
	5.1.4.3	100 Scan	much jit	ter on sc	anned ima	ge					. 52
	5.1.4.2	Reso	lution is	not satis	sfactory or	tone error	r is too la	rge			. 51
	5.1.4.1	Scan	ned ima	ge is dist	torted						. 51
5.	.1.4 Scar	nned	image is	abnorm	al						. 51
	5.1.3.1	1 US	Sensor	error: L6	 						. 50
	5131	டல் 0 Mo	tor error	, H0	•••••			•••••			. 49
	5.1.3.8	Imag	e Memo	ory error:	: E9						. 49
	5.1.3.7	EEPI	ROM er	ror: E7							. 49
	5.1.3.6	Oper	ator Par	nel error:	Еб			•••••••			. 49
	5.1.3.5	Optio	cal error	(ADF b	ack): E3						. 48
	5.1.5.5 5.1.3.4	COV6	a Open:	04 (ADF fr							. 4/
	5.1.3.2	Mult	ifeed: J2	2 114							. 47
	5.1.3.1	Pape	r Jam: J	1							. 46
5.	.1.3 Erro	or Co	des		-						. 46
	5.1.2.2	"No	Paper of	n the Hop	pper"						. 45
5.	5.1.2.1	Scan	ning do	es not sta	art		•••••	••••••			. 45
5.	.1.2 Mal	funct	ion after	nower of	on						. 45
5.1	1 1 Scar	nner	loes not	furn ON	I C [•••••	•••••		44 .
5 1	Troubl	esho	oting I	Procedu	re						43
Char	nter 5	T	rouhl	eshoot	ing				•••••		43
- 1 . 4	2.31 Ad	liustr	ient Snr	ing 2							. 42
-т. Д	2 30 Ad	linst_(Chart- Δ	4	•••••			••••••			42
-т. Д	2.29 Te	st Ch	art (W)	-(13)	•••••			••••••			42
	.2.28 Ad	liustr	ient She	et(s)							. 42
r. 4	.2.27 (R	eserv	ed)								. 41
4	.2.26 US	SB Ca	ıble								. 41
4	.2.25 AC	C Cah	le								. 41
4	.2.24 AC	C Ada	pter								. 41
4	.2.23 US	S Sen	sor F								. 40
4	.2.22 Pic	ck Sh	aft ASS	Y							. 40
4	.2.21 Mc	otor.									. 40
4.	.2.20 HK	K Rin	g								. 39
4. 4	.2.19 Ex	it Ro	ller		•••••						. 39
ч. 4	.2.18 Fee	ed Ro	oller		••••••			•••••••••••			. 39
	.2.17 Fix	xed U	nit.								. 38
4. 4	.2.16 En	npty F	Harness								. 38
т . Д	2 15 Em	nntv S	Sensor	J	•••••			•••••			38
4. 1	2.13 US	nsor	ASSV B	3				• • • • • • • • • • • • • • • • • • • •			. 37
4	2 13 US	Sen	sor RV								37

									Name	fi-6′ Maintenan	110 Ice N	lanual
03	Dec 20,	11 Yashin	na Ueda	Maki	Refer to Rev	Refer to Revision Record on page 2.						
02	Aug. 2,	0 K.Oka	la A.Miyoshi	I.Fujioka	Refer to Rev	vision Record	on page 2		No.	P1PA03607	7 — E	300X/6
Rev	DAT.	E DESIG	G. CHECK	APPR.	DESCRIPTIO	DN					Daga	6/
DE	SIG. Ju	15,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	P		Page	152

6.8.1 Chute ASSY	
6.8.2 Stacker ASSY	
6.8.3 Guide P ASSY	
6.8.4 Top Cover ASSY	
6.8.5 Guide A	
6.9 Replacing the Revolve Unit / Fixed Unit	
6.10 Replacing the Parts inside the Revolve Unit	
6.10.1 Panel PCA	
6.10.2 Empty Sensor / Empty Harness	
6.10.3 Optical Unit [for Backside Scanning]	
6.10.4 Inverter [for Backside Scanning]	
6.10.5 Lamp [for Backside Scanning]	
6.10.6 US Sensor RV	
6.10.7 Sensor ASSY B3	
6.11 Replacing the Parts in the Fixed Unit	
6.11.1 Pick Shaft ASSY	
6.11.2 Optical Unit [for Front Side Scanning]	
6.11.3 Inverter [for Front Side Scanning]	
6.11.4 Lamp [for Front Side Scanning]	
6.11.5 US Sensor F	
6.11.6 Motor	
6.11.7 Feed Koller	
6.12 Polt Tongion A diustment	
6.12 1 Adjustment with a Spring Gauge	
6.12.1 Augustment with a Spring Gauge	103
6.12.1.2 Tension Adjustment of Belt B (with Spring Gauge)	
6.12.2 Adjustment with the Adjustment Spring 2	
6.12.2.1 Tension Adjustment of Belt A (with Adjustment spring 2)	
6.12.2.2 Tension Adjustment of Belt B (with Adjustment spring 2)	
6.13 Notes on Installation of Cables and Clamps	
6.13.1 witting and Clamping at Shield Cover Section	
Chapter 7 A diustment/Settings	
7 1 Maintenance Mode	
7.1.1 Activating the Maintenance Mode and Mode Types	
7.1.2 Maintenance Mode #1. Paper feeding and Sensor test	110
7.1.2 Maintenance Mode #2: Main/Sub-scanning magnification adjustment	112
7 1 4 Maintenance Mode #3: Offset adjustment	115
7.1.5 Maintenance Mode #4: White level adjustment	
7.1.6 Maintenance Mode #5: Consumables counter display and Reset	119
7.1.7 Maintenance Mode #6: Miscellaneous information display	
7.1.8 Maintenance Mode #7: EEPROM data restore	
7.2 Saving EEPROM Data	
Chapter 8 Operation and Daily Maintenance	
8.1 Basic Operation	
8.1.1 Turning the Power ON/OFF	
8.1.2 Opening/Closing the ADF	
8.1.3 Setting Up the ADF Paper Chute (Chute ASSY)	
8.1.4 Loading Documents	
8.1.5 Setting up the Stacker	
8.1.6 How to Use the Operator Panel	
8.1.6.1 Turning the Power ON/OFF	
8.2 ADE Scapping	
8.2 ADF Scatting	
8.2.2 Documents with Different Widths	
8.3 Cleaning	
0.5 Creaning	

									Name	fi-6 [.] Maintenar	110 1ce N	lanual
03	Dec 20,	1 Yashim	a Ueda	Maki	Refer to Rev	vision Record	on page 2) 	Drawing			
02	Aug. 2,	0 K.Okac	a A.Miyoshi	I.Fujioka	Refer to Rev	Refer to Revision Record on page 2.			No.	P1PA03607	7 — E	300X/6
Rev	DAT	DESIG	. CHECK	APPR.	DESCRIPTIO	ON			DE		Dogo	7/
DE	SIG. Jul	15,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	FI		гауе	/152

8.3.1 Cleaning the Outside	136
8.3.2 Cleaning the Inside	137
8.4 Consumables	139
8.4.1 List of Consumables	139
8.4.2 Checking and Resetting the Consumable Counters	139
8.4.3 Replacing the Pad ASSY (supplied part)	140
8.4.4 Replacing the Pick Roller (supplied part)	141
8.5 Scanner Settings	143
8.5.1 Software Operation Panel	143
8.5.2 Starting Up the Software Operation Panel	144
8.5.3 Software Operation Panel Items	144
8.5.3.1 Diagnosis	144
8.5.3.2 Device Info	145
8.5.3.3 Device Setting 2	146
8.5.4 Checking and Resetting the Counters [Page Counter]	148
8.5.4.1 Checking the counters	148
8.5.4.2 Resetting the counters	149
Appendix 1 Screws	150
Annendix 2 Emulation Mode	151
	. 131

									Name	fi-61 Maintenand	10 ce N	lanual
03	Dec 20, 11	Yashima	Ueda	Maki	Refer to Rev	vision Record	on page 2	-	Drawing		_	
02	Aug. 2, 10	K.Okada	a A.Miyoshi	I.Fujioka	Refer to Rev	Refer to Revision Record on page 2.			No.	P1PA03607	— B	800X/6
Rev.	DATE	DESIG.	CHECK	APPR.	DESCRIPTIC	DN					Daga	8/
DE	SIG. July 1	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	РГ		Page	152

Chapter 1 Overview

1.1 Scanner Overview

1.1.1 Features

The fi-6110, image scanner has the following features:

- Realizes high scanning speed on the desk side (20 ppm)
 The scanner can achieve a cost-effective scanning speed of up to 20 ppm/40 ipm (200/300dpi) with A4/Letter size color documents.

 Furthermore, you can load up to 50 sheets of mixed batch documents for continuous scanning which allows you to quickly digitalize a large volume of documents.
- (2) Reliable "intelligent functions" developed through the fi-series scanners The reliable "intelligent functions" that have been accumulated in the fi-series scanner development support the customer's operational efficiency improvement.
- (3) Reliable "intelligent functions" developed through the fi-series scanners The scanner's automatic page size detection function which is newly introduced as well as automatic page orientation correction/blank page skip functions realize efficient scanning operation by automatically checking the size, single-sided/double-sided and orientations of the documents.
- (4) Reduced work loss caused by multifeeds
 The scanner mounts an ultrasonic multifeed sensor that accurately detects "multifeed" errors where two or more
 sheets are fed through the scanner at once.
 This multifeed detection and fi-series' unique feeding mechanism avoid potential work loss caused by feeding
 errors.
- (5) Capable of scanning documents larger than A4/Letter size
 The bundled "Carrier Sheet" allows you to scan documents that are larger than A4/Letter size.
 Mixed batch scanning with paper smaller than A4 size or continuous feeding of the Carrier Sheets meets the customer's business needs.

									Name fi-6110 Maintenance Manual			
03	Dec 20, 11	Yashima	a Ueda	Maki	Refer to Rev	vision Record	on page 2	2.	Drawing	_ /		
02	Aug. 2, 10	K.Okada	a A.Miyoshi	I.Fujioka	Refer to Rev	Refer to Revision Record on page 2.				P1PA03607	7 — E	300X/6
Rev.	DATE	DESIG.	CHECK	APPR.	DESCRIPTIO	DN					Daga	9/
DES	SIG. July 1:	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	РГ		Page	/152

1.1.2	.1.2 Device Specification											
No.			Item			Specification	1	Remarks				
1	Ope	erating	g method	1	Automatic	Document Feed	er (ADF)					
2	Ima	ge se	nsor		Color CCD	(Charge-couple	ed device) x 2	ADF front/back				
3	Ligh	ht sou	irce		White cold	cathode dischar	ge lamp					
	R	Opt	ical reso	lution	600dpi							
	esc			Binary	50-600 dpi	, 1200 dpi		50-600 dpi is incremented by 1.				
4	olui	Out	put	Gravscale	50-600 dpi	1200 dpi		1200 dpi is generated by the				
	tior	resc	olution -	Calar	50 000 dpl	1200 dp1		device driver.				
				Color	50-600 dpl	, 1200api						
5	Inte	rnal v	ideo pro	ocessing	1024 levels	s (10bit)						
	Vid	eo	Monoc	hrome	1 bit/pixel							
6	outr	out	Graysc	ale	8 bit/pixel			4 bit/pixel is generated by the				
	form	nat	Color		24 bit/pixel	l, 8 bit/pixel		device driver				
						Simplex	Duplex					
						(ppm)	(ipm)					
					B&W,	20	40	The actual scanning speed may be				
7	Sca	inning	g speed	200 dpi	Gray		-	slower due to the system				
,	(A4	4 Port	rait)		Color	20	40	environment process other than				
					B&W,	20	40	alor is calculated with USP				
				300 dpi	Gray	20	10	High-Speed (USB 2.0) interface				
					Color	20	40					
					Minimum:		· /= 1	A8-size paper shall be $12/g/m^2$ or 34 lb				
					A8 (52	x 74 mm), Portr	Feeding error rate with the paper longer than					
					Maximum:	(216 - 255 6		A4 or Legal size is not guaranteed described				
8	Pap	Paper size			Legal	(210 x 355.0 mi	m), Landscape	in Section 1.2.				
					Note) 216	x 3048 mm ((120 in) Long	If the paper size is longer than 864 mm (34				
					note) 210	A 5040 IIIII (able	in.), resolution must be specified as 200dpi				
					puge		or less.					
9	Pan	er we	ight		0.06 to 0.15	mm		Business card cannot be fed.				
	1 ap		igitt		(52 to 127	$' \text{ g/m}^2$, 14 to 34	lb.)	A8 size: 0.15mm only				
					Maximum:			Replenishable				
10	Cap	acity	of ADF		60 s	sheets at A4, 17	lb or $64g/m^2$					
					50 s	sheets at A4, 20	Ib or 80 g/m ²					
11	AD	F Pap	er Chute	e type	Aligned at c	enter		T T1. 4				
10	1	u: c	11/ /		Overlappin	ig and paper leng	gth monitoring	Ultrasonic sensor x I				
12	Mul	tifeed	1 detection	on				(Ultrasonic sensor &				
	┝───				Var			Paper detection sensor)				
13	iMM	ſF			1 05			multifeed is detected				
14	Pape	er sepa	ration		Brake pad m	nethod						
15	Shee	t setti	ng		Taper set, sc	juare set						
16	Shee	t setti	ng directi	on	Front side de	own						
17	Pape	r prot	ection		N/A							
18	Back	grour	nd		White			No background changeover function				
19	Inter	face			USB 2.0 (x1)		USB1.1 is also available.				
20	Inpu	t pow	er		AC100 to 24	40V 10% (Single)						
21	Pow	er cor	sumption	1	Refer to Sec	tion 1.1.3 "Enviro	ation (Power consumption)".					
22	Am	bient	conditic	m	Refer to Sec	tion 1.1.3 "Envirc	ation (Ambient condition)".					
23	Dim	ension	ns		Refer to Sec	tion 1.1.3 "Enviro	ation (Outer dimension)".					
24	Wei	ght			Refer to Sec	tion 1.1.3 "Envirc	ation (Weight)".					
25	Ima	ge m	emorv		64 MB (com	mon for front/bac	No additional memory available					
20	Г.,				Vez		,	Automatically enters energy saving				
26	Energy Star				res		mode.					

					Name fi-6110 Maintenance				110 1ce N	lanual		
03	Dec 20, 11	Yashima	u Ueda	Maki	Refer to Rev	Refer to Revision Record on page 2.			Drawing			
02	Aug. 2, 10	K.Okada	a A.Miyoshi	I.Fujioka	Refer to Rev	Refer to Revision Record on page 2.			No.	P1PA0360	7—E	300X/6
Rev.	DATE	DESIG.	CHECK	APPR.	DESCRIPTIC	N			DE		Dogo	10
DES	SIG. July 1	5,2010	K.Okada	CHECK	A.Miyoshi APPR. I.Fujioka			РГ		Page	/152	

Section 1.1.2

No.	Item	Specification	Remarks
		[Hardware]	[Driver]
		Image emphasis	Multi image
		Error diffusion	Blank page skip
27	Image processing functions	Dither	Advanced-DTC
21	(standard)	simplified DTC	sRGB
		Moire removal (smoothing)	Automatic color recognition
		Dropout color	Automatic size detection
		(R, G, B, None, specified color)	Vertical split
		Windows XP (32bit/64bit)	
	Supported	Windows Vista (32bit/64bit)	
28	Supported Operating Systems	Microsoft Windows 7 (32bit/64bit)	
	Operating Systems	Server 2003 (32bit/64bit)	
		Server 2008 (32bit/64bit)	
		FJ TWAIN	
		ISIS	
		ScandAll PRO	
20	Dundlad astruara	Adobe Acrobat Standard	
29	Bundled software	QuickScan Pro (Trial)	
		Image Processing Software option (Trial)	
		Error Recovery Guidance (ERG)	
		Software Operator Panel (SOP)	
		Network connector exclusively for fi-series	es scanner (fi-5000N)
20	Ontions	iSwitch (fi-600SW)	
30	Options	Image processing software option (fi-SIP	C2)
		Fujitsu Scanner Control SDK(FI-SSDK2)	

						N					fi-6 Maintena	6110 nce N	lanual
03	B Dec	20,11	Yashima	Ueda	Maki	Refer to Rev	vision Record	on page 2	2.	Drawing			
02	2 Aug	g. 2, 10	K.Okada	A.Miyoshi	I.Fujioka	Refer to Rev	rision Record	on page 2	-	No.	P1PA0360)7—Е	300X/6
Re	v. D	ATE	DESIG.	CHECK	APPR.	DESCRIPTIO	DN			DE		Dogo	11
D	ESIG.	July 15	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	F		raye	/152

1.1.3 Environmental Specification

No.	Item	1	Specification		Re	marks
		Height	130 mm	Protrusi	ons not included.	
		Width 2	292 mm			
		Depth	143 mm			
1	Outer dimension		292mm			130mm 143mm
No.	Item		Spe	cificatio	n	Remarks
2	Weight	3.0 kg or less	$\frac{1}{5}(6.62 \text{ lb.})$			AC adapter not included.
3	Input power	AC 100 to 24	40V. 50/60Hz			AC adapter input rating
		Operating	28 W or less			
	Power	ar i	5.36W or les	38		International Energy Star V1.1:
4	consumption	Sleep mode				5.36 W or less
	1	Power off	1 W or less			
	a 1 : a 1	Operating	24.1 or less			
5	Calorific value	Sleep mode	4.61 or less			
	(Kcal/Hr)	Power off	0.86 or less			
6	Noise	Operating Not operatin	Sound press Sound powe Significant c (margin valu Sound press Sound powe	ure level: r level: 6. liscrete fr ue: +5dB) ure level: r level: 5.	50dB(A)or less 2B(A) or less equency noise: None 45dB(A) or less 7B(A) or less	Excludes operator position "Peripheral device" of "Office I installation" Conforms to ISO9296 Conforms to ECMA74: 2005
			Operating		$5 \sim 35^{\circ}$ C. $42 \sim 95^{\circ}$ F	Temperature gradient
		Temperature	Not operatin	g	$-20 \sim 60^{\circ}$ C. $-4 \sim 140^{\circ}$	F (no condensation):
	Ambient	(°C, °F)	Stored/Trans	sported	$-20 \sim 60^{\circ}$ C $-4 \sim 140^{\circ}$	F 15 °C/hr or less
7	condition		Operating	sportea	20~80%	Humidity gradient
	vonunion	Humidity	Not operatin	σ	8~95%	(no condensation):
		(%RH)	Stored/Trans	sported	8~95%	30 %/hr or less
8	Inclination (degrees)	The scanner The scanner No anomaly	shall operate norn shall not tip over with 60 degrees of	nally with with 10 d	1 5 degrees of inclination legrees of inclination.	1.
9	altitude	Operating	0 ~ 3,000 m			
, ,	annuuc	Not operatin	g $0 \sim 12,000$ m	n		

									Name	fi-6′ Maintenan	110 Ice N	lanual
03	Dec 20, 11	Yashima	Ueda	Maki	Refer to Rev	vision Record	on page 2	-	Drawing			
02	Aug. 2, 10	K.Okada	a A.Miyoshi	I.Fujioka	Refer to Rev	ision Record	on page 2		No.	P1PA03607	7 — E	300X/6
Rev.	DATE	DESIG.	CHECK	APPR.	DESCRIPTIO	DN			DE		Daga	12
DE	SIG. July 1	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka			rage	152

1.1.4 Appearance [Front]



No	Part name	Function
1	ADF Paper Chute (Chute ASSY)	Place documents to be scanned.
2	Side Guide	Guides the documents in width direction as they are fed into the scanner.
3	Stacker	Stacks up the ejected documents.
4	Stacker Extension	Lift up to adjust to the paper length
5	ADF Release Tab	Pull this tab to open the ADF.
6	Operator Panel	Can be used to operate the scanner or check the status.
7	Chute Extension 1	Dull out to adjust to the paper length
8	Chute Extension 2	Pull out to adjust to the paper length.
0	ADF	Pulls and feeds the documents one sheet at a time from the ADF paper chute.
9	(Automatic Document Feeder)	Open to replace consumables or clean the inside do the scanner.

[Rear]



									Name	fi-61 Maintenan	110 ce N	lanual
03	Dec 20, 1	Yashim	a Ueda	Maki	Refer to Rev	vision Record	on page 2		Drawing			
02	Aug. 2, 10	K.Okada	a A.Miyoshi	I.Fujioka	Refer to Rev	Refer to Revision Record on page 2.			No.	P1PA03607	′—E	300X/6
Rev.	DATE	DESIG.	CHECK	APPR.	DESCRIPTIO	DN			DE		Daga	13
DE	SIG. July	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	РГ		Page	152

No.	Parts name	Function	
1	Manufacturing Label	MODEL f1-6110 0123456789 PART NO. PA03608-B00* 0123456789 SER.NO. ****** 0123456789 DATE YYYY-MM ******* PATE YYYY-MM ******* MODEL (#97.1 Limitsd ******* MODEL (#98) #1-6110 0123456789 PART NO. (#98) #403608-B002 0123456789 SER.NO. (#98) ******* 0123456789 DATE (±£618) ****** ******* DATE (±£618) ******* ******** MADE IN CHINA ******** MADE NAGE SCANNER (#98) #46 MAGE SCANNER (#98) #46 ******	For Europe For North America
		MODEL (型号) f1-6110 0123456789 PART NO. (特別PA03608-B007 0123456789 SER. NO. (勝別回) 0123456789 DATE (生产印刷 YYY - MM - DD) ····································	For China
		C C C C C N124 C FKL-FI-6110(B) C C N124 C FKL-FI-6110(B) C C N124 C FKL-FI-6110(B) C C N124 C FKL-FI-6110(B) C C N124 C FKL-FI-6110(B) FKL-FI-6110(B) C C N124 C FKL-FI-6110(B) C C N124 C FKL-FI-6110(B) FKL-FI-6110(B) C C N124 C FKL-FI-6110(B) C C N124 C FKL-FI-6110(B) FKL-FI-6110(B) C C N124 C FKL-FI-6110(B) FKL-FI-6110(B) C C C FKL-FI-6110(B) C C C FKL-FI-6110(B) FKL-FI-6110(B) C C C FKL-FI-6110(B) FKL-FI-6110(B) FKL-FI-6110(B) C C C FKL-FI-6110(B) FKL-FI-6110(B) C C C FKL-FI-6110(B) FKL-FI-610(B) FKL-FI-610(B) FKL-FI-610(B) FKL-FI-610(B) FKL-FI-610(B) FKL-FI-610(B) FKL-FI-610(B) FKL-FI-610(B) FKL-FI-	For Europe
2	Certification label	C C C C N124 C A MARKEN C N124	For North America For China
3	Book Label	"Use only AC-someter itsted in the user manual" Verwenden Sie ausschiteBlich den Im Benzehnndbuch mufseführten Neiztell-AdaDter.	
4	Ventilation Port	Holes for ventilating hot air from inside the scanner.	
5	Security Cable Slot	Used to connect an anti-theft security cable (commercially avail	lable)
6	Power Connector	Used to connect the power cable. Power cable refers to the ΔC cable and ΔC adopter connected to	ogether
7	USB Connector	Used to connect a USB cable.	

										Name	fi-6110 Maintenance Manual
03	Dec 20	0,11	Yashima	a Ueda	Maki	Refer to Rev	vision Record	on page 2		Drawing	
02	Aug. 2	2,10	K.Okada	a A.Miyoshi	I.Fujioka	Refer to Rev	ision Record	on page 2		No.	P1PA03607-B00X/6
Rev.	DA	ΤE	DESIG.	CHECK	APPR.	DESCRIPTIO	DN			DE	
DE	SIG. J	July 15	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	F	

1.1.5 Operator Panel

[English panel]



									Name	fi-6′ Maintenan	110 Ice N	lanual
03	Dec 20, 11	Yashima	a Ueda	Maki	Refer to Rev	ision Record	on page 2	2.	Drawing			
02	Aug. 2, 10	K.Okada	a A.Miyoshi	I.Fujioka	Refer to Rev	vision Record	on page 2		No.	P1PA03607	7 — E	300X/6
Rev.	DATE	DESIG.	CHECK	APPR.	DESCRIPTIO	DN					Daga	15
DE	SIG. July 1	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	P		гаge	152

1.2 Document Specification

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

1.2.1 Paper Size and Weight

The paper sizes that can be scanned are as follows:

- Maximum: 85" x 14" (Portrait)
 - Long page scanning supports scanning of documents up to 216 x 3048 mm (120 in.).
- Minimum: 52 x 74 mm (Portrait, Landscape)

		Pa	per size	
Paper weight	A8	$\Lambda7$ to $\Lambda5$	A4/Letter	Legal
	(52 x 74mm)	AT IO AJ	(8.5 x 11 in.)	(8.5 x 14 in.)
127g/m ² (34 lb.)	Supported	Supported	Supported	Supported
52 to 127g/m ² (14 to 34 lb.)	NOT supported	Supported	Supported	Supported

The document smaller than A6 (105 x 148 mm / 4.13 x 5.83 in.) is excluded from the error rate regulation of skew, offset, jam and magnification.

1.2.2 Paper Type

Recommended paper types for scanning are as follows:

- Wood-free paper
- Wood containing paper
- PPC paper (recycled)

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

Precautions

The following types of documents may not be scanned successfully:

- Documents of non-uniform thickness (e.g. envelopes, documents with photographs attached)
- Wrinkled or curled documents
- Folded or torn documents
- Tracing paper
- Coated paper
- Carbon paper
- Photosensitive paper
- Perforated documents
- Documents that are neither square nor rectangular
- Very thin documents
- Photographs (photographic paper)

The following types of documents must not be scanned:

- Paper-clipped or stapled documents
- Documents on which the ink is still wet
- Documents smaller than A8 size
- Documents wider than 216 mm (8.5 in.)
- · Documents other than paper such as fabric, metal foil and OHP film.
- · Important documents such as certificates and cash vouchers which must not be damaged

									Name	fi-6110 Maintenance Manual
03	Dec 20, 11	Yashima	Ueda	Maki	Refer to Rev	vision Record	on page 2	2.	Drawing	
02	Aug. 2, 10	K.Okada	A.Miyoshi	I.Fujioka	Refer to Rev	vision Record	on page 2		No.	P1PA03607-B00X/6
Rev.	DATE	DESIG.	CHECK	APPR.	DESCRIPTIO	DN				
DE	SIG. July 1	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	P	

1.2.3 Loading Capacity

ADF loading capacity varies as shown in the table below depending on paper weight.

Paper	(g/m^2)	52	64	80	90	128
weight	(lb.)	14	17	21	24	34
Capacity (s	heets)	60	60	50	45	31

1.2.4 Stacker Capacity

Stacker Ca	pacity					
Paper	(g/m^2)	52	64	80	90	128
weight	(lb.)	14	17	21	24	34
Capacity (sheets)			60	50		

1.2.5 Document Warpage Condition

Documents may be scannable when their curl is within as follows:



1.2.6 Document Curling/Damage on Leading Edge

- (1) Definition of curling and leading edge damage
 - Curling: Curled up height is 1mm or more.



- Damage on leading edge: The leading edge is torn 0.5 mm or more. Or the document surface is peeled off.
- (2) Curling and damage definition excludes the following:

Curling is easily influenced by paper condition. The paper of the same lot shall be used, and hatchelling direction and cutting burr shall be the same direction to compare the paper. If the glued paper is peeled before used, paper with glue residue on its leading edge or curled paper are excluded. Paper with perforations on its leading edge is also excluded. Paper once curled before it is fed is excluded before evaluation. Feeding shall be 5 times or less.

									Name	fi-6′ Maintenan	110 Ice N	lanual
03	Dec 20, 1	1 Yashin	na Ueda	Maki	Refer to Rev	vision Record	on page 2	2.	Drawing			
02	Aug. 2, 1) K.Oka	la A.Miyoshi	I.Fujioka	Refer to Rev	vision Record	on page 2		No.	P1PA03607	7 — E	300X/6
Rev.	DATE	DESIC	G. CHECK	APPR.	DESCRIPTIO	DN					Daga	17 /
DES	SIG. July	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	РГ		Page	/152

1.2.7 Mixed Batch Scanning

- Conditions for mixed batch scanning
 - Difference between leading edges of two sheets is <u>40 mm or less</u>.
 - Do not set the document edge within the area of 50 mm width of the center (minimum scanning width: business card).
 - Paper is recommended to be aligned at the center.
 - Move the paper guides to width of the maximum paper size.

Maxin	num si	ize	LT	A4	B5	A5	B6	A6	B7	A7	B8	A8
		Width (mm)	216	210	182	149	129	105	91	74.3	64.3	53
	LT	216										
	A4	210										
	B5	182										
	A5	149										
Minimum size	B6	129										
winninum size	A6	105										
	B7	91										
	A7	74.3										
	B8	64.3										
	A8	53										

- Conditions for mixed paper type scanning (including paper weight)
 - (1) Paper within specification is mixed : Available
 - Woodfree paper, OCR paper, PPC paper, Recycled paper
 - -52 to 128 g/m² (14 to 34 lb.)
 - (2) Paper including special media is mixed: NOT available Check the actual value.
 - NCR paper, Bond paper, Perforated document, Thermal paper, Carbon-backed paper, Carrier Sheet, OHP paper, Tracing paper
 - (3) Friction coefficient between different types of paper: Paper friction coefficient Maximum: 0.35 Minimum: 0.6
 - (4) Multifeed detection for mixed batch of documents: Overlapping detection is recommended at mixed batch scanning. Detection by length may fail.
- Error rate for mixed batch scanning

Error rate: The following specification is recommended including jam, multifeed, Miss-picking, fold, torn, wrinkled, and curl.

Normal temperature/humidity (20 to 25° C / 68 to 77° F, 40 to 60%RH): 1/250 or less Low temperature/humidity (5° C / 4° F, 20%RH): 1/125 or less High temperature/humidity (35° C / 95° F, 80%RH): 1/125 or less

									Name	me fi-6110 Maintenance Manual			
03	Dec 20, 11	Yashima	Ueda	Maki	Refer to Revi	ision Record	on page 2	2.	Drawing				
02	Aug. 2, 10	K.Okada	A.Miyoshi	I.Fujioka	Refer to Revi	ision Record	on page 2		No.	P1PA03607	7 — E	300X/6	
Rev.	DATE	DESIG.	CHECK	APPR.	DESCRIPTIO	N			DE		Daga	18	
DE	SIG. July 1	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	РГ		Page	152	

1.2.8 Conditions for Multifeed Detection

This scanner detects multifeed in either way of the following:

- (a) Check overlapping
- (b) Check length
- (c) Check overlapping and length

Overlapping is detected by the Ultrasonic sensor.

Length is detected by the Lever-type sensor.

The following conditions are required for an accurate detection.

Detection by overlapping

- Paper weight: 52 to 127 g/m^2 (14 to 34 lb)
- Do not punch holes within 35 mm (1.38 in.) of the vertical center line of the document.
- Do not attach other documents within 35 mm (1.38 in.) of the vertical center line of the document.

Detection by length

- Variance in document length: 1 % or less
- Do not punch holes within 35 mm (1.38 in.) of the vertical center line of the document.

Detection by overlapping and length

- Paper weight: $52 \sim 127 \text{ g/m}^2 (14 \sim 34 \text{ lb})$
- Variance in document length: 1 % or less
- Do not punch holes within 35 mm (1.38 in.) of the vertical center line of the document.
- Do not attach other documents within 35 mm (1.38 in.) of the vertical center line of the document.

[Soecifications]

- Multifeed is detected in the under the conditions described above.
- Multifeed cannot be detected within 30 mm from the leading edge of the document.

									Name	fi-6110 Maintenance Manual		
03	Dec 20, 1	l Yashim	a Ueda	Maki	Refer to Rev	ision Record	on page 2	2.	Drawing			
02	Aug. 2, 10) K.Okad	a A.Miyoshi	I.Fujioka	Refer to Rev	vision Record	on page 2		No.	P1PA03607	7 — E	300X/6
Rev.	DATE	DESIG	CHECK	APPR.	DESCRIPTIO	DN			DE		Dogo	19
DE	SIG. July	15,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	РГ		гаge	/152

Chapter 2 Scanner Configuration

2.1 Scanner Configuration

This section describes the operation of each unit.

2.1.1 Description of ADF Section

2.1.1.1 Inside of ADF



2.1.1.2 Paper Separation/Paper Feed

When the Empty sensor detects that documents are loaded on the ADF paper chute, the PC starts scanning, and the Pick roller and Pad ASSY separate the sheet one by one.

The Top sensor detects the leading edge of the document during transportation. If the trailing edge is not detected after a certain period passed, multifeed is detected due to overlaps of sheets.

The Feed roller sends the documents at the speed that corresponds to the specified scanning resolution, the Optical unit scans them and then the Eject roller ejects them to the Stacker.

The scanner has an Empty Sensor, Top Sensor, ADF Open Sensor and the US Sensors.



2.1.1.3 Driving Unit

The Pick roller, Feed roller and Eject roller are driven by the Feed Motor.

ADF drive circuit and Motor fuse are located in the Control PCA and Analog PCA. If abnormal current has flowed, the Motor fuse in the Control PCA/Analog PCA cuts off the current.

2.1.2 Reading Station

2.1.2.1 Optical System

Documents shall be set in the ADF paper chute, front side face down. The front side of the document is scanned by the Optical unit in the Revolve Unit, and the backside of the document is scanned by the Optical unit in the Fixed Unit. These two Optical units are the same parts number.

The image on the document is projected to a color CCD through a lens and mirror system and converted to image signals that are 10 bit per pixel at configured resolution.

2.1.2.2 Light Source

The scanner uses two lamps (White cold cathode discharge lamp) which light the scanning areas in order to get sufficient CCD output. The lamp is turned ON or OFF by an inverter that is controlled by the Control PCA.

2.1.2.3 Scan Controller

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



AGC (Automatic Gain Control)

When the gain adjustment is completed successfully, the scanner feeds the document to the scanning position 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 position. 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), and the scanner starts scanning the image.

									Name	fi-6110 Maintenance Manual		
03	Dec 20, 1	1 Yashir	na Ueda	Maki	Refer to Rev	ision Record	on page 2	2.	Drawing			
02	Aug. 2, 1	0 K.Oka	da A.Miyosh	i I.Fujioka	Refer to Rev	vision Record	on page 2		No.	P1PA03607	′—E	300X/6
Rev.	DATE	DESIC	G. CHECK	APPR.	DESCRIPTIO	DN			DE		Dogo	21
DE	SIG. July	15,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	P		rage	152

2.1.3 Controllers

2.1.3.1 Control PCA

The Control PCA controls each unit with the firmware.

It includes the following connectors. (Refer to Back side view in Section 1.1.4 "Appearance".)

- USB connector (1)
- DC voltage input connector (1)

2.1.3.2 Analog PCA

The Analog PCA has the mechanical control circuit for motor drive circuit.

2.1.3.3 Panel PCA

The Panel PCA on the Operator Panel has the buttons and LEDs introduced in Section 1.1.5 "Operator Panel" as well as the EEPROM that records the information below.

When replacing the Panel PCA, you need to back up all the data stored in the EEPROM to the Control PCA temporarily (Section 7.2). Then you need to restore the EEPROM in the Control PCA to the new Panel PCA after replacing the Panel PCA (Section 7.1.8).

[Information in the EEPROM]

- · ADF front/back magnification correction value for main/sub-scan direction
- · ADF front/back offset correction value for main/sub-scan direction
- White level correction value
- Total number of sheets scanned by ADF
- Consumable counter [Pad ASSY]
- Consumable counter [Pick Roller]
- Ship date
- First day of use
- Error codes that occurred in the past
- Scanner serial number

									Name	fi-6′ Maintenan	110 Ice N	lanual
03	Dec 20, 11	Yashima	a Ueda	Maki	Refer to Rev	vision Record	on page 2	2.	Drawing			
02	Aug. 2, 10	K.Okada	a A.Miyoshi	I.Fujioka	Refer to Rev	vision Record	on page 2		No.	P1PA03607	7 — E	300X/6
Rev.	DATE	DESIG.	CHECK	APPR.	DESCRIPTIO	DN					Daga	22
DE	SIG. July 1	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	РГ		Page	/152



									Name	fi-6110 Maintenance Manual			
03	Dec 20, 11	Yashima	Ueda	Maki	Refer to Rev	vision Record	on page 2	-	Drawing	ng			
02	Aug. 2, 10	K.Okada	A.Miyoshi	I.Fujioka	Refer to Rev	ision Record	on page 2		No.	P1PA03607-B00X/6			
Rev.	DATE	DESIG.	CHECK	APPR.	DESCRIPTIO	DN							
DE	SIG. July 1	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	РГ				

Chapter 3 Installation

3.1 Unpacking

3.1.1 Unpacking the Scanner

- 1. This scanner weighs 3.0 kg / 6.62 lb. (Packaged weight: 5.5 kg / 12.14 lb.)
- 2. The packaging box and packaging materials are required for storage or transportation of the product. Ask the customers not to discard the packaging box and materials.

Follow the procedure below to unpack the scanner.

(1) Remove the AC adapter, AC cable, and then Cushion s TL/TR.

(2) Remove the scanner, accessories box and the ADF Paper Chute.

(3) Remove the Cushions BL/BR, and then the Carrier Sheet.

(4) Remove the scanner and ADF Paper Chute from the polyethylene bags, and then the protective tapes for transportation.

The following table lists the packaging configuration.

No.	Item	Quantity	Remarks
1	AC Adapter	1	In the polyethylene bag
2	AC Cable	1	In the polyethylene bag
3	Cushion TL	1	
4	Cushion TR	1	
5	Scanner	1	fi-6110 in the polyethylene bag
6	ADF Paper Chute	1	In the polyethylene bag
7	Accessories box	1	Check the appended goods by referring to Section 3.1.2.
8	Cushion BL	1	
9	Cushion BR	1	
10	Carrier Sheet	1	In the polyethylene bag
11	Bottom plate	1	
12	Outer box	1	Box size: 397(W) x 265(D) x 233(H) mm / 15.6(W) x 10.4(D) x 9.2(H) in.



									Name	fi-6′ Maintenan	110 Ice N	lanual
03	Dec 20, 11	Yashima	Ueda	Maki	Refer to Rev	vision Record	on page 2		Drawing			
02	Aug. 2, 10	K.Okada	a A.Miyoshi	I.Fujioka	Refer to Rev	vision Record	on page 2		No. P1PA03607-B00X			300X/6
Rev.	DATE	DESIG.	CHECK	APPR.	DESCRIPTIO	DN			DE		Daga	24
DE	SIG. July 1	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	P		rage	152

3.1.2 Checking the Appearance and Accessories

Check the following points for the components in the package.

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

No.	Package	Name of Component	Quantity	Appearance	Remarks
1	Scanner		1		
2	ADF Paper Ch	ute	1		
3	AC Cable		1		
4	AC Adapter		1		Rated voltage: 24V (output voltage within standards: 22.8 to 26.4V) Rated current: 2.65A
5	Carrier Sheet		1		
6		USB Cable	1		
7		Getting Started	1		
8	In the Safety Precautions		1		
9	box	QuickScan TM Pro brochure	1		
10		SETUP DISK DVD-ROM	1		
11		Adobe Acrobat DVD-ROM	1		

									Name	fi-6 [⁄] Maintenar	110 Ice N	lanual
03	Dec 20, 11	Yashima	Ueda	Maki	Refer to Rev	vision Record	on page 2		Drawing			
02	Aug. 2, 10	K.Okada	a A.Miyoshi	I.Fujioka	Refer to Rev	vision Record	on page 2		No.	P1PA03607	7 — E	300X/6
Rev	DATE	DESIG.	CHECK	APPR.	DESCRIPTIO	DN						25
DE	SIG. July 1	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	- PF		Page	152

3.2 Installing the Scanner

3.2.1 For Safety Installation

Before installing the scanner, read the following precautions carefully to avoid scanning trouble. Refer to Section 1.1.3 "Environmental Specification" for information on input power and outer dimensions.

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

3.2.2 Software

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

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

The SETUP DISK DVD-ROM includes the following software.

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

The Adobe Acrobat DVD-ROM includes the following software.

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

									Name	fi-6110 Maintenance Manual	I	
03	Dec 20, 11	Yashima	Ueda	Maki	Refer to Rev	ision Record	on page 2	2.	Drawing			
02	Aug. 2, 10	K.Okada	A.Miyoshi	I.Fujioka	Refer to Rev	vision Record	on page 2	-	No.	P1PA03607-B00X/	6	
Rev.	DATE	DESIG.	CHECK	APPR.	DESCRIPTIO	DN						
DE	SIG. July 1	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	РГ		152	

3.2.3 Installing the Bundled Software

This section describes how to install (recommended) the scanner drivers that are used when scanning documents by the scanner, and software for image scanning. Confirm [Installed Software] and [System Requirements] before starting installation.

[Installed Software]

The following table shows software to install in the selected method.

Supported Operating System		INSTALL (C	ustom) (*1)	Remarks
Software Y: Supported N: Not supported : To be selected	INSTALL (Recommended)	TWAIN	ISIS	
FUJITSU TWAIN32	Y	Y	-	
FUJITSU ISIS	Ν	—	Y	
Software Operation Panel	Y	Y (*2)	Y (*2)	
Error Recovery Guide	Y	Y (*2)	Y (*2)	
Image Processing Software Option	Y			
ScandAll PRO	Y	Y (*3)	Y (*3)	
Scan to Microsoft Share Point	Y			
QuickScan Pro (Trial)	N	_	_	
Operator's Guide	Y	_	_	

*1: At custom installation, you need to select a driver and install the software.

*2: [FUJITSU TWAIN32] or [FUJITSU ISIS] are installed at the same time.

*3: [ScandAll PRO] is recommended to install for confirming the scan operation.

[FUJITSU ISIS] driver needs to be installed by custom installation to scan in ISIS standard.

[System Requirements (1/2)]

Supported Operating System	Windov	vs XP	Windows Vista (32bit/64bit)	Windows 7 (32bit/64bit)
Software Y: Supported N: Not supported	- Home Edition - Professional	Professional x64 Edition	- Home Premium - Home Basic - Business - Enterprise - Ultimate	- Home Premium - Professional - Enterprise - Ultimate
FUJITSU TWAIN32	Y	Y	Y	Y
FUJITSU ISIS	Y	Y	Y	Y
Software Operation Panel	Y	Y	Y	Y
Error Recovery Guide	Y	Y	Y	Y
Image Processing Software Option	Y	Y	Y	Y
ScandAll PRO	Y	Y	Y	Y
Scan to Microsoft Share Point	Y	Y	Y	Y
QuickScan Pro (Trial)	Y	Ν	Y(*1)	Y(*1)
Operator's Guide	Y	Y	Y	Ŷ

*1: 64-bit operating system is not supported.

[System Requirements (2/2)]

Supported Operating System			Window	's Server		
Software	2003	2003	2003 R2	2003 R2	2008	2008 R2
Y: Supported	Standard	Standard	Standard	Standard	Standard	Standard
N: Not supported	Edition	x64 Edition	Edition	x64 Edition	(32/64bit)	64bit
FUJITSU TWAIN32	Y	Y	Y	Y	Y	Y
FUJITSU ISIS	Y	Y	Y	Y	Y	Y
Software Operation Panel	Y	Y	Y	Y	Y	Y
Error Recovery Guide	Y	Y	Y	Y	Y	Y
Image Processing Software Option	Y	Y	Y	Y	Y	Y
ScandAll PRO	Ν	N	Y	Y	Y	Y
Scan to Microsoft Share Point	Y	Y	Y	Y	Y	Y
QuickScan Pro (Trial)	Y	Ν	Y	Ν	Y(*1)	Ν
Operator's Guide	Y	Y	Y	Y	Y	Y

*1: 64-bit operating system is not supported.

										Name	fi-6 Maintenar	110 1ce N	lanual
03	Dec	c 20, 11	Yashima	Ueda	Maki	Refer to Rev	ision Record	on page 2	ו	Drawing			
02	Au	g. 2, 10	K.Okada	A.Miyoshi	I.Fujioka	Refer to Rev	vision Record	on page 2		No.	P1PA0360	7—E	300X/6
Rev	D	ATE	DESIG.	CHECK	APPR.	DESCRIPTIO	DN			DE		Dogo	27 /
DE	SIG.	July 15	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	Fr		Faye	/152

[Recommended Installation Method]

Uninstall the older version of software.

- (1) Log in as a user with "Administrator" privileges.
- (2) Insert the SETUP DISK DVD-ROM into the DVD drive.
- (3) On the [FUJITSU Image Scanner Setup] screen that appears automatically, click [fi-6110], and click the [Next] button on the displayed screen.

SETUP DISK START U	P SCREEN>	
FU	JITSU Image Scanner Setup	
	 README FIRST INSTALL (Recommended) 	J
	 INSTALL (Custom) USER'S GUIDE 	
	BROWSE DISK	
	All Rights Reserved, Copyright(C) PFU LIMITED 1995-2010	EXIT

- (4) Click the [INSTALL (Recommended)] button.
- (5) Install the software, following the onscreen instruction.
- (6) Restart your computer by following the message after installation.

									Name	fi-6110 Maintenance Manual
03	Dec 20, 1	Yashima	a Ueda	Maki	Refer to Rev	ision Record	on page 2	2.	Drawing	
02	Aug. 2, 1	K.Okada	a A.Miyoshi	I.Fujioka	Refer to Rev	vision Record	on page 2	-	No.	P1PA03607-B00X/6
Rev.	DATE	DESIG.	CHECK	APPR.	DESCRIPTIO	DN			DE	
DE	SIG. July	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	РГ	

3.2.4 Installing the Scanner

(1) Place the scanner at its installation site.



Clear the following space for installing the scanner.

Width: 493.5 mm (1.62 ft.) Depth: 850 mm (2.79 ft.)

(2) Attach the ADF Paper Chute.

(3) Make sure that the computer is turned off, and connect the scanner and the computer with the USB cable.

- (4) Connect the AC cable with the AC adapter (hereinafter referred to as "the power cable").
- (5) Connect the power cable to the power connector of the scanner and to the AC outlet.

(6) Press the [Power] button on the control panel of the scanner.

- \rightarrow The power is turned on, and the Power LED lights in green.
 - During initialization, the Function Number Display of the operator panel changes as follows: " $8" \rightarrow "P" \rightarrow "0" \rightarrow "1"$

The scanner is ready when "1" is displayed.

Note: If "1" is not shown in the Function Number Display, refer to Chapter 5 "Troubleshooting".



									Name	fi-6110 Maintenance Manual
03	Dec 20, 11	Yashima	Ueda	Maki	Refer to Rev	vision Record	on page 2		Drawing	
02	Aug. 2, 10	K.Okada	a A.Miyoshi	I.Fujioka	Refer to Rev	vision Record	on page 2		No.	P1PA03607-B00X/6
Rev.	DATE	DESIG.	CHECK	APPR.	DESCRIPTIO	DN			DE	
DE	SIG. July 1	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka		

Chapter 4 Maintenance Parts

4.1 Maintenance Parts List

No.	Description	Part Number	Qua	ntity	Appearance	Maintenance Procedure	AFR *1	Remarks
1. Cor	trol board				•			
1-1	CONTROL PCA	PA03607-K987	1		4.2.1	6.7.1	225	
1-2	ANALOG PCA	PA03586-K989	1		4.2.2	6.7.1	225	
2. Out	er Covers / Operator Pane	el						
2-1	CHUTE ASSY	PA03607-E951	1		4.2.3	6.8.1	305	
2-2	STACKER ASSY	PA03607-E941	1		4.2.4	6.8.2	415	
2-3	GUIDE P ASSY	PA03607-E981	1		4.2.5	6.8.3	396	
2-4	GUIDE A	PA03607-E961	1		4.2.6	6.8.5	396	
<i>J.</i> Rev		PA03607-D991						- For Europe and North America
3-1	REVOLVE UNIT		1		4.2.8	6.9	364	- Includes Pad ASSY *2
		PA03607-D997						- Includes Pad ASSY *2
3-2	LAMP	PA03586-K946		1	4.2.9	6.10.5	114	
3-3	INVERTER	PA03586-K940		1	4.2.10	6.10.4	114	
3-4	OPTICAL UNIT	PA03607-E911		1	4.2.11	6.10.3	115	
3-5	TOP COVER ASSY	PA03607-D981		1	427	684	115	- For Europe and North America
5.5		PA03607-D987		-	1.2.7	0.0.1	115	-For China
3-6	US SENSOR RV	PA03484-K905		1	4.2.13	6.10.6	236	
3-7	SENSOR ASSY B3	PA03586-F917		1	4.2.14	6.10.7	176	
3-8	EMPTY SENSOR	PA03607-K944		1	4.2.15	6.10.2	236	
3-9	EMP-HARNESS	PA03607-K945		1		6.10.2	166	
3-10	PANEL PCA	PA03607-K980	1		4.2.12	6.10.1	246	
4. Fixe	ed Unit				I.			
4-1	FIXED UNIT	PA03607-D971	1		4.2.17	6.9	634	Includes Pick Roller *2
4-2	FEED ROLLER	PA03586-K984		1	4.2.18	6.11.7	123	
4-3	EXIT ROLLER	PA03586-K983		1	4.2.19	6.11.8	123	
4-4	HK RING	PA03360-K941		1	4.2.20	6.11.8	745	
4-5	LAMP	PA03586-K946		1	4.2.9	6.11.4	114	
4-6	INVERTER	PA03586-K940		1	4.2.10	6.11.3	114	
4-7	OPTICAL UNIT	PA03607-E911		1	4.2.11	6.11.2	115	
4-8	MOTOR	PA03586-K981		1	4.2.21	6.11.6	345	
4-9	PICK SHAFT ASSY	PA03586-K943		1	4.2.22	6.11.1	305	
4-10	US SENSOR F	PA03586-K942		1	4.2.23	6.11.5	714	
4-11	AC ADAPTER	PA03586-K931	1		4.2.24	6.6	205	
	AC CABLE E	PA63112-2001						For Europe
4 12	AC CABLE UK	PA63118-2001	1		1 2 25	6.6	205	For UK
4-12	AC CABLE U	PA63113-2001			4.2.23	0.0	203	For North America
	AC CABLE C	PA63115-1831						For China
4-13	USB CABLE	PA61001-0171	1		4.2.26	6.6	205	

									Name	fi-6′ Maintenan	110 Ice N	lanual
03	Dec 20, 11	Yashima	Ueda	Maki	Refer to Rev	vision Record	on page 2	2.	Drawing	_ /		
02	Aug. 2, 10	K.Okada	a A.Miyoshi	I.Fujioka	Refer to Rev	ision Record of	on page 2		No.	P1PA03607	7 — E	300X/6
Rev.	DATE	DESIG.	CHECK	APPR.	DESCRIPTIC	DN					Daga	30 /
DES	SIG. July 1	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	РГ		Page	152

Section 4.1

Maintenance Parts Lists (Cont'd)

No.	Description	Part Number	Qua	ntity	Appearance	Maintenance Procedure	AFR *1	Remarks
5. Adj	ustment sheet/Others							
5-1	ADJ-CHART-KIT	PA03607-D960	1					
5-2	TEST CHART (W)	PA03277-Y123		1				
5-3	ADJUST-CHART-A4	PA93010-Y790		1				
5-4	ADJ-SPRING-2	PA03607-K990	1					

*1: AFR = Annual Failure Rate

*2: Pad ASSY and Pick Roller are not registered as maintenance parts as they are consumables (supplied part).

									Name	fi-6′ Maintenan	110 Ice N	lanual
03	Dec 20, 1	Yashima	a Ueda	Maki	Refer to Rev	vision Record	on page 2		Drawing			
02	Aug. 2, 10	K.Okada	a A.Miyoshi	I.Fujioka	Refer to Rev	vision Record	on page 2	-	No.	P1PA03607	7 — E	300X/6
Rev.	DATE	DESIG.	CHECK	APPR.	DESCRIPTIO	DESCRIPTION					Daga	31
DE	SIG. July	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	РГ		Page	152

				sted Item	Reference			
						Auju	steu item	Section
		Paper 1	Feedir	ig Tes	t			7.1.2
			Ma	gnific	ation	Adjus	stment (Main/Sub-scanning) *1	7.1.3
No.	Maintenance Part			Off	set Ad	ljustn	ient ^{*1}	7.1.4
					Wh	ite Le	vel Adjustment ^{*1}	7.1.5
		EEPROM Backup/Restore					7.2 7.1.8	
							Remarks	• •
1	Control PCA	\checkmark						
2	Analog PCA	\checkmark						
3	Chute ASSY	✓						
4	Stacker ASSY	✓						
5	Guide P ASSY	✓						
6	Guide A	√						
7	Top Cover ASSY	√						
8	Revolve Unit	✓	✓	✓	✓			
9	Fixed Unit	✓	✓	✓	✓			
10	Lamp	✓			✓			
11	Inverter	✓						
12	Optical Unit	✓	✓	✓	✓			
13	Panel PCA	~	*2	▲ *2	▲ *2	~	Be sure to replace the Panel PCA a EEPROM.	after backing up the
14	US Sensor RV	✓						
15	Sensor ASSY B3	✓						
16	Empty Sensor	√						
17	EMP-Harness	✓						
18	Feed Roller	√	✓	✓				
19	Exit Roller	✓	✓	✓				
20	HK Ring	✓	1	1				
21	Motor	✓	✓	✓		1		
22	Pick Shaft ASSY	✓		1				
23	LIS Sensor F	 ✓ 	1	1	1			

4.1.1 Adjustments after Maintenance Parts Replacement

*1: The following charts are required when performing the following adjustments.

<u> </u>	
Adjustment	Chart
Main/Sub-scan magnification	ADJUST-CHART-A4
-	(A4 PPC paper is substitutable)
Offset	ADJUST-CHART-A4
	(A4 PPC paper is substitutable)
White level	TEST CHART (W) (art paper)

*2: If the EEPROM cannot be backed up, the adjustment marked with \blacktriangle are required.

									Name	fi-6′ Maintenan	110 Ice N	lanual
03	Dec 20, 1	Yashima	Ueda	Maki	Refer to Revisi	ion Record of	on page 2	-	Drawing			
02	Aug. 2, 10	K.Okada	A.Miyoshi	I.Fujioka	Refer to Revisi	ion Record o	on page 2		No.	P1PA03607	7 — E	300X/6
Rev	DATE	DESIG.	CHECK	APPR.	DESCRIPTION	1					Daga	32
DE	SIG. July 1	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	РГ		Page	152

4.2 Specifications / Appearances of Maintenance Parts

4.2.1 Control PCA

Description	Parts No.	Replacement Procedure	Remarks
CONTROL PCA	PA03607-K987	6.7.1	Adjustment is not required after replacement.



4.2.2 Analog PCA

Description	Parts No.	Replacement Procedure	Remarks
ANALOG PCA	PA03586-K989	6.7.1	Adjustment is not required after replacement.



4.2.3 Chute ASSY (ADF Paper Chute)

Description	Parts No.	Replacement Procedure	Remarks
CHUTE ASSY	PA03607-E951	6.8.1	



										Name	fi-6′ Maintenan	110 Ice N	lanual
03	Dec 20), 11	Yashima	Ueda	Maki	Refer to Rev	vision Record	on page 2	2.	Drawing			
02	Aug. 2	2, 10	K.Okada	A.Miyoshi	I.Fujioka	Refer to Rev	vision Record	on page 2		No.	P1PA03607	7 — E	300X/6
Rev.	DAT	ΓЕ	DESIG.	CHECK	APPR.	DESCRIPTION DELLI MITED Dago 33				33			
DE	SIG. Ju	uly 15	,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	РГ		Page	152

4.2.4 Stacker ASSY

Description	Parts No.	Replacement Procedure	Remarks
STACKER ASSY	PA03607-E951	6.8.2	

4.2.5 Guide P ASSY

Description	Parts No.	Replacement Procedure	Remarks
GUIDE P ASSY	PA03607-E981	6.8.3	



4.2.6 Guide A

Description	Parts No.	Replacement Procedure	Remarks
GUIDE A	PA03607-E961	6.8.5	



									Name	fi-6′ Maintenan	110 Ice N	lanual
03	Dec 20, 11	Yashima	a Ueda	Maki	Refer to Rev	vision Record	on page 2	2.	Drawing			
02	Aug. 2, 10	K.Okada	a A.Miyoshi	I.Fujioka	Refer to Rev	ision Record	on page 2		No.	P1PA03607	7 — E	300X/6
Rev.	DATE	DESIG.	CHECK	APPR.	DESCRIPTIO	DN					Daga	34 /
DES	SIG. July 1	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	РГ		Page	152

4.2.7 Top Cover ASSY

	Description	Part	s No.	Replacement Procedure	Remarks	
	TOP COVER ASSY	PA03607-D981	For Europe and North America	6.8.4	Includes the Operator Panel cover ASSY.	
	02	PA03607-D987	For China		Note: Panel PCA is not included.	
гијтан <u>fi-6110</u>					··· Operator Panel cover ASSY	

4.2.8 Revolve Unit

Description	Parts	s No.	Replacement Procedure	Remarks	
REVOLVE UNIT	PA03607-D991	For Europe and North America	6.9	The following adjustments are required after replacement: - Main/Sub-scan magnification (Section 7.1.3) - Offset (Section 7.1.4.) - White level (Section 7.1.5) Includes the following parts: - Lamp - Inverter - Optical Unit - Empty Sensor - US Sensor RV - Sensor ASSY B3 - Empty Harness - Top Cover ASSY Note: Panel PCA is not included. Also includes the Pad ASSY (consumable). Reset the counter after replacing the Revolve Unit. When the consumable is worn away, do not replace the Revolve Unit but the Pad ASSY.	
REVOLVE UNIT	PA03607-D997	For China	0.9		
reve flaur F1	ront			Back	

									Name	fi-6′ Maintenan	110 Ice N	lanual
03	Dec 20, 11	Yashima	u Ueda	Maki	Refer to Rev	vision Record	on page 2	2.	Drawing			
02	Aug. 2, 10	K.Okada	a A.Miyoshi	I.Fujioka	Refer to Rev	vision Record	on page 2		No.	P1PA03607	7 — E	300X/6
Rev	DATE	DESIG.	CHECK	APPR.	DESCRIPTIO	DN					Daga	35 /
DE	SIG. July 1.	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	P		rage	152

4.2.9 Lamp

Description	Parts No.	Replacement Procedure	Remarks
LAMP	PA03586-K946	Revolve Unit: 6.10.5 Fixed Unit: 6.11.4	The following adjustment is required after replacement: - White level (Section 7.1.5)



4.2.10 Inverter

Description	Parts No.	Replacement Procedure	Remarks
INVERTER	PA03586-K940	Revolve Unit: 6.10.4 Fixed Unit: 6.11.3	Adjustment is not required after replacement.



4.2.11 Optical Unit

Description	Parts No.	Replacement Procedure	Remarks
OPTICAL UNIT	PA03607-E911	Revolve Unit: 6.10.3 Fixed Unit: 6.11.2	The following adjustments are required after replacement: - White level (Section 7.1.5) - Main/Sub-scan magnification (Section 7.1.3) - Offset (Section 7.1.4.)



									Name	fi-6110 Maintenance Manual		
03	Dec 20, 11	Yashima	a Ueda	Maki	Refer to Revision Record on page 2.			Drawing				
02	Aug. 2, 10	K.Okada	a A.Miyoshi	I.Fujioka	Refer to Revision Record on page 2.			No.	P1PA03607-B00X/6			
Rev.	DATE	DESIG.	CHECK	APPR.	DESCRIPTION							
DE	SIG. July 1:	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	РГ		Page	/152
4.2.12 Panel PCA

PANEL PCA PA03607-K980 6.10.1 EEPROM data needs to be backed up and restor before and after replacement. Save (back up) data: Section 7.2	Description	Parts No.	Replacement Procedure	Remarks
Restore data: Section 7.1.8	PANEL PCA	PA03607-K980	6.10.1	EEPROM data needs to be backed up and restored before and after replacement. Save (back up) data: Section 7.2 Restore data: Section 7.1.8



4.2.13 US Sensor RV

Description	Description Parts No. Replacement Procedure		Remarks
US SENSOR RV	US SENSOR RV PA03484-K905 6.10.6		Adjustment is not required after replacement.



4.2.14 Sensor ASSY B3

Description	Parts No.	Replacement Procedure	Remarks
SENSOR ASSY B3 PA03586-F		6.10.7	



									Name	fi-6110 Maintenance Manual
03	Dec 20, 11	Yashima	Ueda	Maki	Refer to Revision Record on page 2.				Drawing	
02	Aug. 2, 10	K.Okada	A.Miyoshi	I.Fujioka	Refer to Rev	Refer to Revision Record on page 2.			No.	P1PA03607-B00X/6
Rev.	DATE	DESIG.	CHECK	APPR.	DESCRIPTION				DE	
DE	SIG. July 1	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	P	

4.2.15 Empty Sensor

Description	Parts No.	Replacement Procedure	Remarks
EMPTY SENSOR	Y SENSOR PA03607-K944		



4.2.16 Empty Harness

Description	Parts No.	Replacement Procedure	Remarks
EMP-HARNESS	PA03607-K945	6.10.2	



4.2.17 Fixed Unit

Description	Parts No.	Replacement Procedure	Remarks
FIXED UNIT	PA03607-D971	6.9	The following adjustments are required after replacement: - Main/Sub-scan magnification (Section 7.1.3) - Offset (Section 7.1.4.) - White level (Section 7.1.5) Includes the following parts: - Feed Roller - Exit Roller - HK Ring - Lamp - Inverter - Optical Unit - Motor - Pick Shaft ASSY - US Sensor F Also includes the Pick Roller (consumable). Reset the counter after replacing the Fixed Unit. When the consumable is worn away, do not replace the Fixed Unit the Pick Roller.



									Name	fi-6 Maintenar	110 nce N	lanual
03	Dec 20, 11	Yashima	u Ueda	Maki	Refer to Revision Record on page 2.				Drawing			
02	Aug. 2, 10	K.Okada	a A.Miyoshi	I.Fujioka	Refer to Rev	Refer to Revision Record on page 2.			No.	P1PA0360	7—E	300X/6
Rev.	DATE	DESIG.	CHECK	APPR.	DESCRIPTION			DE		Dogo	38	
DE	SIG. July 1	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	Pr		rage	/152

4.2.18 Feed Roller

Description	Parts No.	Replacement Procedure	Remarks
FEED ROLLER	PA03586-K984	6.11.7	Adjust the belt tension after replacing the Feed Roller. (Refer to Section 6.12.) The following adjustments are required after replacement: - Main/Sub-scan magnification (Section 7.1.3) - Offset (Section 7.1.4.)



4.2.19 Exit Roller

Description	Parts No.	Replacement Procedure	Remarks
EXIT ROLLER	PA03586-K983	6.11.8	The Exit Roller does not include the HK Ring. Adjust the belt tension after replacing the Exit Roller. (Refer to Section 6.12.) The following adjustments are required after replacement: - Main/Sub-scan magnification (Section 7.1.3) - Offset (Section 7.1.4.)



4.2.20 HK Ring

Description	Parts No.	Replacement Procedure	Remarks
HK RING	PA03360-K941	6.11.8	



									Name	fi-6110 Maintenance Manual
03	Dec 20, 11	Yashima	Ueda	Maki	Refer to Revision Record on page 2.				Drawing	
02	Aug. 2, 10	K.Okada	A.Miyoshi	I.Fujioka	Refer to Rev	Refer to Revision Record on page 2.			No.	P1PA03607-B00X/6
Rev.	DATE	DESIG.	CHECK	APPR.	DESCRIPTIO	DESCRIPTION			DE	
DE	SIG. July 1	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	РГ	

4.2.21 Motor

Description	Parts No.	Replacement Procedure	Remarks
MOTOR	PA03586-K981	6.11.6	Adjust the belt tension after replacing the Motor. (Refer to Section 6.12.)



4.2.22 Pick Shaft ASSY

Description	Parts No.	Replacement Procedure	Remarks
PICK SHASFT ASSY	PA03586-K943	6.11.1	The Pick Shaft ASSY does not include the Pick Roller.



4.2.23 US Sensor F

Description	Parts No.	Replacement Procedure	Remarks
US SENSOR F	PA03586-K942	6.11.5	Adjustment is not required after replacement.



										Name	fi-6′ Maintenan	110 Ice N	lanual
03	Dec 20,	, 11 `	Yashima	Ueda	Maki	Refer to Rev	Refer to Revision Record on page 2.			Drawing			
02	Aug. 2,	, 10 I	K.Okada	A.Miyoshi	I.Fujioka	Refer to Rev	ision Record	on page 2		No.	P1PA03607	7 — E	300X/6
Rev.	DAT	Ъ	DESIG.	CHECK	APPR.	DESCRIPTIO	DESCRIPTION					Daga	40 /
DE	SIG. Ju	ıly 15,	,2010	K.Okada	CHECK	A.Miyoshi APPR. I.Fujioka			РГ		Page	152	

4.2.24 AC Adapter

Description	Parts No.	Replacement Procedure	Remarks		
AC ADAPTER	PA03586-K931		Rated voltage: 24V (output voltage within standards: 22.8 to 26.4V) Rated current: 2.65A		
	「「「」「」「」「」「」「」「」「」「」「」「」「」「」」「」「」」「」」「」		PUT(输入)(輸入) 100-240V~ 1.5-0.9A 50-60Hz PUT(補出)(輸出) 24V == 2.65A		

4.2.25 AC Cable

Description	Description Parts No.		Remarks
AC CABLE E	PA63112-2001		
AC CABLE UK	PA63118-2001		
AC CABLE U	PA63113-2001		
AC CABLE C	PA63115-1831		

4.2.26 USB Cable

Description	Parts No.	Replacement Procedure	Remarks
USB CABLE	PA61001-0171		



4.2.27 (Reserved)

									Name	fi-61 Maintenan	110 Ice N	lanual
03	Dec 20, 11	Yashima	a Ueda	Maki	Refer to Rev	Refer to Revision Record on page 2.			Drawing			
02	Aug. 2, 10	K.Okada	a A.Miyoshi	I.Fujioka	Refer to Rev	vision Record	on page 2		No.	P1PA03607	7 — E	300X/6
Rev.	DATE	DESIG.	CHECK	APPR.	DESCRIPTIO	DESCRIPTION					Dogo	41
DE	SIG. July 1	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	РГ		rage	152

4.2.28 Adjustment Sheet(s)

	Description	Parts No.	Remarks
	ADJ-CHART-KIT	PA03607-D960	The following adjustment sheets are included. The charts in ADJ-CHART-KIT cover any adjustments to be performed after maintenance part replacement. • TEST CHART(W) (white reference sheet): 1 (for white level) • ADJUST-CHAR-A4 (64g/m ² , 17 lb.): 1 (for magnification/offset) • ADJUST CHART (black frame): Not used for this scanner. ADH-CHART-KIT is required when the following maintenance parts are replaced. • Revolve Unit • Optical Unit • Fixed Unit • Lamp • Inverter • Feed Roller • Exit Roller • Motor
	←215 mm White Art pape	> er	$\begin{array}{ c c c c c c c c c c c c c$
	TEST CHAR	\underline{W}	V ADJUST CHART A02010 №200 A11 1 1 100
4	.2.29 Test Chart (W)	<u>A93010-Y /90</u> (black frame)
	Description	Parts No.	Remarks
	TEST CHART (W)	PA03277-Y123	
		4	White rt paper 297 mm

4.2.30 Adjust-Chart-A4

Description	Parts No.	Remarks
ADJUST-CHART-A4	PA93010-Y790	
		$\begin{array}{c c} \leftarrow 210 \text{ mm} \\ \hline \\ \hline \\ A4 \\ 64g/m^2 \\ 17 \text{ lb.} \end{array} \end{array} \begin{array}{c} \hline \\ 297 \text{ mm} \\ \hline \\ \hline \\ \hline \\ \end{array}$

4.2.31 Adjustment Spring 2

Description	Parts No.	Remarks
ADJ-SPRING-2	PA03607-K990	



										Name	fi-6′ Maintenar	110 Ice N	lanual
03	Dec	20, 11	Yashima	Ueda	Maki	Refer to Rev	Refer to Revision Record on page 2.						
02	Aug	g. 2, 10	K.Okada	A.Miyoshi	I.Fujioka	Refer to Rev	vision Record	on page 2		No.	P1PA03607	7—E	300X/6
Rev.	D /	ΑTΕ	DESIG.	CHECK	APPR.	DESCRIPTIO	DESCRIPTION					Daga	42 /
DE	SIG.	July 15	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	ГГ		гауе	/152

Chapter 5 Troubleshooting

5.1 Troubleshooting Procedure

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

Specify where the error occurs by following the procedures below.

Trouble categ	gory	Refer to (Title)					
Scanner does not turn	on	Power is not turned on					
		Scanning does not start					
Malfunction after pov	ver on	"No paper on the Hopper" appears					
		Multifeed occurs frequently					
	J1	Paper jam					
	J2	Multifeed					
	U4	Cover open					
	E2	Optical error (ADF front)					
	E3	Optical error (ADF back)					
Error code appears	E6	Operator panel error					
	E7	EEPROM error					
	E9	Image memory error					
	C0	LSI error					
	H0	Motor error					
	L6	US Sensor error					
		Scanned image is distorted					
		Resolution is not satisfactory or tone error is too large					
		Too much jitter on scanned image					
Scanned image is abn	ormal	Scanned image is misaligned					
		Scan magnification error is too large					
		Vertical streaks appear in scanned image					
		White area of scanned image is not correct					

		_								Name	fi-6′ Maintenar	110 nce N	lanual
03	Dec 20,	11 Y	/ashima	Ueda	Maki	Refer to Rev	Refer to Revision Record on page 2.			Drawing			
02	Aug. 2,	10 K	K.Okada	A.Miyoshi	I.Fujioka	Refer to Rev	Refer to Revision Record on page 2.			No.	P1PA03607	7 — E	300X/6
Rev.	DAT	ΕI	DESIG.	CHECK	APPR.	DESCRIPTIO	DESCRIPTION					Daga	43 /
DE	SIG. Jul	y 15, 2	2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	РГ		гаge	152

5.1.1 Scanner does not turn ON

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

Item No.	Check items	Result	How/where to check
1	Is the power cable (AC adapter and AC cable) is connected properly?	Yes No	Go to step 2. Reconnect properly, and see if the error is resolved.
2	Is the supply voltage appropriate? Refer to Section 1.1.2 "Device Specification".	Yes No	Go to step 3. Measure the supply voltage with a tester, and try plugging the power cable into the other outlet if the supply voltage is not appropriate. If the error persists, go to step 3. <u>If an improper outlet is found, report it to the customer.</u>
3	Measure the voltage of the AC adapter.Is the AC adapter a proper one which is enclosed with the scanner?	Yes	If the AC adapter is a proper one and the measured voltage is within standard, go to step 4. * Check the label on the AC adapter to see if the AC adapter is a proper one. (Refer to Section 4.2.24.)
	 Is the output voltage of the AC adapter appropriate? Rated voltage: 24 V (output voltage within standard: 22.8 to 26.4 V) Image: Constraint of the AC adapter appropriate? Rated voltage: 24 V (output voltage within standard: 22.8 to 26.4 V) Image: Constraint of the AC adapter appropriate? Rated voltage: 24 V (output voltage within standard: 22.8 to 26.4 V) Image: Constraint of the AC adapter appropriate? Rated voltage: 24 V (output voltage within standard: 22.8 to 26.4 V) Image: Constraint of the AC adapter appropriate? Image: Constraint of the AC adapter appropriate approprise approprise approprise approprise appropriate appropriate appr	No	If the measured voltage is within standard, check the following: • Is the AC adapter a proper one? • Is the AC adapter or AC cable broken? • Replace the AC adapter or AC cable, and see if the error is resolved. • If the error persists, go to step 4. <u>* Be careful not to have the tester short-circuited.</u>
4	Check whether the Panel PCA is abnormal. • Button depression	Yes No	Replace the Panel PCA and see if the error is resolved. If the error persists, go to step 5. If any error is found on the Panel PCA, replace it.
	failure		
5	Check whether the Control PCA is abnormal.	Yes	Replace the Control PCA and see if the error is resolved.
	AC adapter slot damage	No	If any error is found on the Control PCA, replace it.

										Name	fi-6 Maintenai	110 1ce N	lanual
03	Dec	20,11	Yashima	Ueda	Maki	Refer to Rev	ision Record	on page 2		Drawing			
02	Aug	g. 2, 10	K.Okada	A.Miyoshi	I.Fujioka	Refer to Rev	Refer to Revision Record on page 2.			No.	P1PA0360	7—E	300X/6
Rev.	D	ATE	DESIG.	CHECK	APPR.	DESCRIPTIO	DN			DE		Daga	44 /
DE	SIG.	July 15	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	ГГ		Faye	/152

5.1.2 Malfunction after power on 5.1.2.1 Scanning does not start

Power is supplied, but scanning does not start

Item No.	Check items			How/w	here to check				
1	Is any error code displayed on the Operator panel?	Yes	If an error code is displayed on the Operator panel, refer to Section 5.2.3 and follow the instruction.						
		No	If no error code is	If no error code is displayed on the Operator panel, go to step 2.					
2	Check the items on the right.	Yes	Interface cable (USB cable) connection						
			ADF is complete	letely closed					
			 Paper loading 	status on the AI	DF Paper Chut	te.			
			AC adapter ve	oltage - Rated vo	oltage: 24 V				
			(01	utput voltage wit	hin standard: 2	22.8 to 26.4 V)			
			If no problem is f	ound among the	above, go to s	tep 3.			
3	Turn on the power again and	Yes	Yes Press the [Power] button for more than two seconds to tu						
	see if the error is resolved.		press it again afte	r more than two	seconds to tur	n on.			
4	In the common measuring d		If the error persis	ts, go to step 4.	Den al an Darri				
4	correctly?		Check the scanne	r on the Control	Panel of Devic	ce Manager.			
			Device Manager			_			
			Connector	Twain	ISIS				
			position	driver	driver	_			
			Scanner side (USB)	fi-6110dj	fi-6110				
			If the scanner is see if the error is	not recognized j resolved.	properly, repla	ace the Control PCA and			
5	Is each sensor operating		Perform Sensor to	est in the Mainte	nance Mode a	nd check if the following			
	normally?		sensors operate p	roperly:					
			 Empty sensor 						
			 ADF open ser 	isor					

5.1.2.2 "No Paper on the Hopper"

Item No.	Check items	How/where to check
1	Does the sensor arm move smoothly?	If the Sensor arm is abnormal, replace the Revolve Unit.
2	Is the Empty Sensor functioning effectively?	Perform Maintenance mode to check the Empty sensor operation. If the Empty Sensor or Empty Harness is abnormal, replace it.

									Name	fi-6 [,] Maintenar	110 Ice N	lanual
03	Dec 20, 1	Yashim	a Ueda	Maki	Refer to Rev	Refer to Revision Record on page 2.			Drawing			
02	Aug. 2, 10	K.Okad	a A.Miyoshi	I.Fujioka	Refer to Rev	Refer to Revision Record on page 2.			No.	P1PA03607	7 — E	300X/6
Rev.	DATE	DESIG.	CHECK	APPR.	DESCRIPTIO	DESCRIPTION					Daga	45 /
DE	SIG. July 1	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	РГ		Page	152

5.1.3 Error Codes

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

The displayed error code determines the abnormal part. The error codes are categorized. Refer to the table below.

Display	Error
J1	Paper jam
J2	Multifeed
U4	Cover open error
E2	Optical errors (ADF front)
E3	Optical errors (ADF back)
E6	Operator panel error
E7	EEPROM error
E9	Image memory error
C0	LSI error
H0	Motor error
L6	Sensor error

5.1.3.1 Paper Jam: J1

Error code	Check LED	Error message	Occurrence Conditions/Countermeasure
J1	ON	Paper jam	< <occurrence condition="">> This error is detected under the following conditions: Miss-picking The Top sensor is not turned ON when paper is transported for a certain amount after feeding operation starts. Trailing edge detection timeout The Top sensor is not turned OFF when it is turned ON and paper is transported for a specified amount. Gap between paper is too close Encoder jam detection When the Pick roller detects that the paper moves more than a specified amount. Open the ADF, and remove the jammed documents. If paper jam is detected while no paper jam actually occurs, perform Sensor test in the Maintenance mode and check that each sensor moves properly.</occurrence>

									Name	fi-6 [,] Maintenar	110 Ice N	lanual
03	Dec 20, 11	Yashima	Ueda	Maki	Refer to Rev	Refer to Revision Record on page 2.			Drawing			
02	Aug. 2, 10	K.Okada	A.Miyoshi	I.Fujioka	Refer to Rev	Refer to Revision Record on page 2.			No.	P1PA03607	7 — E	300X/6
Rev.	DATE	DESIG.	CHECK	APPR.	DESCRIPTIO	DESCRIPTION			DE		Daga	46
DE	SIG. July 1	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	РГ		гауе	/152

5.1.3.2 Multifeed: J2

Error code	Check LED	Error message	Occurrence Conditions/Countermeasure
J2	ON	Multifeed detected	 <<occurrence condition="">> This scanner has two methods of multifeed detection. (1) Detection by verlapping (2) Detection by length (Top sensor/Empty sensor) -Length of the first sheet is a reference length. If difference between the reference length and length of the second sheet is 10 mm or more, multifeed is detectedDifference of the length ±10mm is a default value. You can select the length among ±10mm ±15mm, and ±20mm in Software Operation Panel. * For mixed batch scanning, select "detection by overlapping". * Refer to Section 1.2.8 "Condition for multifeed detection" for details. </occurrence> < < < <

5.1.3.3 Cover Open: U4

Error	Check	Error message	Occurrence Conditions/Countermeasure
code	LED	<detail></detail>	
U4	ON	Cover open	<cocurrence condition="">> This error occurs when the ADF is open. > Close the ADF. If the error occurs in spite of ADF closed, perform Sensor test in the Maintenance Mode to see if the ADF open sensor reacts. Check the cable between the ADF open sensor and Control PCA. If no error is found on the cable such as connector damage or disconnection, replace the Fixed unit and Control PCA, and see if the error is resolved.</cocurrence>

									Name	fi-6110 Maintenance Manual		
03	Dec 20, 11	Yashima	a Ueda	Maki	Refer to Rev	Refer to Revision Record on page 2. Drawing						
02	Aug. 2, 10	K.Okada	a A.Miyoshi	I.Fujioka	Refer to Rev	Refer to Revision Record on page 2.				P1PA03607	7 — E	300X/6
Rev.	DATE	DESIG.	CHECK	APPR.	DESCRIPTIO	ESCRIPTION					Daga	47 /
DE	SIG. July 1	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka				152

5.1.3.4 Optical error (ADF front): E2

Error code	Check LED	Error message <detail></detail>	Occurrence Conditions/Countermeasure
E2	ON	Optical error (ADF Front)	Cocurrence Condition>> This error occurs when CCD output level does not reach the reference level at Optical Unit in the Fixed Unit. Countermeasure>> Check the following: Lamp for front side lights (Fixed Unit) If the lamp does not light, replace the Lamp/Inverter/Control PCA, and see if the error is resolved. Dirt on the scanning section (Fixed Unit) and white reference area (Revolved Unit) Clean the dirty area. Optical Unit installed correctly Reinstall it if not installed correctly. Cable damage between Optical Unit and Control PCA, connector defect AC adapter Is the correct AC adapter used? Rated voltage: 24V (output voltage: 22.8 to 26.4V) If the items above are not the cause, replace the Control PCA.

5.1.3.5 Optical error (ADF back): E3

Error code	Check LED	Error message <detail></detail>	Occurrence Conditions/Countermeasure
E3	ON	Optical error (ADF Back)	 <<occurrence condition="">> This error occurs when CCD output level does not reach the reference level at Optical Unit in the Revolve Unit. </occurrence> <<countermeasure>> Check the following: Lamp for back side lights (Revolve Unit) If the lamp does not light, replace the Lamp/Inverter/Control PCA, and see if the error is resolved. </countermeasure> Dirt on the scanning section (Revolve Unit) and white reference area (Fixed Unit) Clean the dirty area. Optical Unit installed correctly Reinstall it if not installed correctly. Cable damage between Optical Unit and Control PCA, connector defect AC adapter Is the correct AC adapter used? Rated voltage: 24V (output voltage: 22.8 to 26.4V) If the items above are not the cause, replace the corresponding Optical Unit, and see if the error persists, replace the Control PCA.

									Name	fi-6 [,] Maintenar	110 Ice N	lanual
03	Dec 20, 1	1 Yashin	na Ueda	Maki	Refer to Rev	efer to Revision Record on page 2. Drawing						
02	Aug. 2, 1) K.Okad	la A.Miyoshi	I.Fujioka	Refer to Rev	Refer to Revision Record on page 2.				P1PA03607	7 — E	300X/6
Rev.	DATE	DESIG	. CHECK	APPR.	DESCRIPTIO	DN					Daga	48 /
DES	SIG. July	15,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	РГ		Page	/152

5.1.3.6 Operator Panel error: E6

Error code	Check LED	Error message <detail></detail>	Occurrence Conditions/Countermeasure
E6	ON	Operator Panel error	<cocurrence condition="">> Writing/Reading FLASH data failed. <<countermeasure>> Replace the Control PCA.</countermeasure></cocurrence>

5.1.3.7 EEPROM error: E7

Error code	Check LED	Error message <detail></detail>	Occurrence Conditions/Countermeasure
E7	ON	EEPROM error	<cocurrence condition="">> This error occurs when the Panel PCA on which there is no EEPROM data is installed again and the power is supplied. > Replace it with the new Panel PCA. > Before replacing the Panel PCA, back up the EEPROM data from the Panel PCA to the Control PCA. And then restore the data to the new Panel PCA after replacement. The Panel PCA without the data is nonreusable. If it is reinstalled, E6 error occurs.</cocurrence>

5.1.3.8 Image Memory error: E9

Error code	Check LED	Error message <detail></detail>	Occurrence Conditions/Countermeasure
E9	ON	Image memory error	<coccurrence condition="">> This error occurs when the EEPROM (on the Panel PCA) does not respond. <countermeasure>> Check the connection between the Panel PCA and the Control PCA. If no error is found, the Panel PCA or Control PCA may be defect.</countermeasure></coccurrence>

5.1.3.9 LSI error: C0

Error code	Check LED	Error message <detail></detail>	Occurrence Conditions/Countermeasure					
E0	ON	LSI error	<coccurrence condition="">> This error occurs when Write/Read comparison error occurred in the LSI RAM during firmware initialization process. The error code differs depending on the error occurrence side (front or backside). > Replace the Control PCA, and see if the error is resolved.</coccurrence>					

									Name	fi-6110 Maintenance Manual			
03	Dec 20, 11	Yashima	Ueda	Maki	Refer to Revision Record on page 2. Drawing								
02	Aug. 2, 10	K.Okada	A.Miyoshi	I.Fujioka	Refer to Rev	Refer to Revision Record on page 2.				P1PA03607-B00X/6			
Rev.	DATE	DESIG.	CHECK	APPR.	DESCRIPTIO	DN			DE				
DE	SIG. July 1	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	РГ				

5.1.3.10 Motor error: H0

Error code	Check LED	Error message <detail></detail>	Occurrence Conditions/Countermeasure
НО	ON	Motor circuit error	<operational principle="">> The resettable fuse is automatic restoration type, which is mounted on the Analog PCA. A provisional overcurrent makes the resettable fuse block the circuit. Removing the cause of overcurrent recovers in ten seconds. Coccurrence Condition>> This error occurs when overcurrent is allowed to the resettable fuse on the Analog PCA, which blocks each fuse. The following defects are assumed as occurrence conditions. <</operational>

5.1.3.11 US Sensor error: L6

Error code	Check LED	Error message <detail></detail>	Occurrence Conditions/Countermeasure
L6	ON	US sensor error	< <p><<operating principle="">> The Ultrasonic sensor (US sensor) transmits the ultrasonic wave from the transmitter (Revolve unit), and the receiver (Fixed Unit) receives it. The error is detected as a result that the receiver of the US sensor checked the ultrasonic wave variance that passed the layer of air between papers when several pages of documents go through the sensor area.Cocurrence Condition>>This error occurs when voltage other than specified value (0.5 ~ 1.2V) is received even though the Sensor transmission is halting state, or when the received voltage is specified voltage or lower (2.5V) even though the Sensor is transmitting the ultrasonic wave.The following defects are assumed as occurrence conditions.① Cable damage between the sensor and Control PCA② Faulty sensors③ Faulty Control PCACheck the slant or foreign objects (paper strip) in the US Sensor RV and U Sensor FX.If no damage is found on the cable between the US Sensor RV and Control PCA, or the cable between US Sensor FX and Control PCA, perform Sensor test to specify a faulty sensor, and replace it. If the error persists, replace the Control PCA and see if the error is resolved.</operating></p>

									Name	fi-6110 Maintenance Manual			
03	Dec 20, 11	Yashima	a Ueda	Maki	Refer to Rev	Refer to Revision Record on page 2. Drawing							
02	Aug. 2, 10	K.Okada	a A.Miyoshi	I.Fujioka	Refer to Rev	vision Record	on page 2	-	No.	P1PA03607	7 — E	300X/6	
Rev.	DATE	DESIG.	CHECK	APPR.	DESCRIPTIO	DN					Daga	50 /	
DES	SIG. July 1	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka				/152	

5.1.4 Scanned image is abnormal

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

Trouble category	Refer to			
Scanned image is distorted	Section 5.1.4.1			
Resolution is not satisfactory or tone error is too large	Section 5.1.4.2			
Too much jitter on scanned image	Section 5.1.4.3			
Scanned image is misaligned	Section 5.1.4.4			
Scan magnification error is too large	Section 5.1.4.5, 5.1.4.6			
Vertical streaks appear in scanned image	Section 5.1.4.7			
White area of scanned image is not correct	Section 5.1.4.8			

5.1.4.1 Scanned image is distorted

Item	Check items	How/where to check
No.		
1	Check the items listed in the right column.	Check the interface cable (USB) connection.
		· If any temporary error or alarm is indicated, follow the
		corresponding troubleshooting.
2	Check the cables.	Are the cables between the Control PCA and Optical Unit
		damaged?
		Is the connector connected correctly?
		If no anomaly is found on the cables and connection, replace
		the Optical Unit and see if the error is resolved.
3	Replace the Analog PCA/Control PCA and	Refer to Section 6.7.1.
	see if the error is resolved.	

5.1.4.2 Resolution is not satisfactory or tone error is too large

Item No	Check items	How/where to check
1	Check the items listed in the right column.	 Does the document satisfy the paper specifications? Are the scan settings (resolution/density) correctly specified for the application software used? Check the interface cable (USB) connection. If any temporary error or alarm is indicated, follow the corresponding troubleshooting.
2	Clean the scanning area (glass) and see if the error is resolved.	Cleaning the inside of Scanner: Refer to Section 8.3.2.
3	Clean the Feed rollers and Pinch rollers, and see if the error is resolved.	Cleaning the inside of Scanner: Refer to Section 8.3.2.
4	Is the Optical Unit and Lamp clean? Check damages and dirt on the cables for the Optical Unit and Lamp.	Cleaning the Optical Unit: Refer to Section 6.3.1.
5	Replace the Optical Unit, and see if the error is resolved.	Optical Unit Front side scanning: Refer to Section 6.11.2. Back side scanning: Refer to Section 6.10.3.
6	Replace the Lamp/Inverter, and see if the error is resolved.	Lamp Front side scanning: Refer to Section 6.11.4. Backside scanning: Refer to Section 6.10.5. Inverter Front side scanning: Refer to Section 6.11.3. Backside scanning: Refer to Section 6.10.4.
7	Replace the Analog PCA/Control PCA, and see if the error is resolved.	Refer to Section 6.7.1.

										Name	fi-6110 Maintenance Manual
03	Dec 20	0,11	Yashima	a Ueda	Maki	Refer to Rev	Refer to Revision Record on page 2.				
02	Aug. 2	2, 10	K.Okada	a A.Miyoshi	I.Fujioka	Refer to Rev	Refer to Revision Record on page 2.			No.	P1PA03607-B00X/6
Rev.	DAT	ΤE	DESIG.	CHECK	APPR.	DESCRIPTIO	DESCRIPTION			DE	
DE	SIG. Jı	uly 15	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	Pr	

5.1.4.3 Too much jitter on scanned image

The following shows the sample of scanned image when "jitter" error occurs.

This error occurs when feeding around the scanning section is not smooth. Check the feeding.

Scanned image with jitter

ABCDEFG ABCDEFG

Normal scanned image

Item	Check items	How/where to check
No.		
1	Does the document satisfy the paper	Refer to Section 1.2.
	specification?	
2	Do any obstacles get inside and block	Remove obstacles if any, and see if the error is resolved.
	paper feeding?	
3	Are any foreign obstacles stuck on the	Clean or replace any faulty rollers, and see if the error is
	Feed rollers or Pinch rollers?	resolved.
	Are these rollers distorted?	
4	Are the Pick rollers, Pad ASSY worn	Check the consumable counters on the Maintenance mode.
	away or distorted?	Make sure that the values are within the specified number of
	-	sheets and rollers are not distorted.
		If any anomaly is found, clean or replace the rollers, and see if
		the error is resolved.
5	Check the installation of the Optical Unit	Reinstall it if not installed correctly and see if the error is
	that scanned abnormally.	resolved.
		Optical Unit
		Front side scanning: Refer to Section 6.11.2.
		Back side scanning: Refer to Section 6.10.3.
6	Are the belts damaged?	Motor
	Are they installed correctly?	Refer to Section 6.11.6.
7	Replace the Motor, and see if the error is	
	resolved.	
8	Replace the Optical Unit, and see if the	Optical Unit
	error is resolved.	Front side scanning: Refer to Section 6.11.2.
		Back side scanning: Refer to Section 6.10.3.

5.1.4.4 Scanned image is misaligned

Item	Check items	How/where to check						
No.								
1	Check that the side guides are bilaterally	Replace the Chute ASSY if the side guides are not						
	symmetrical.	bilaterally symmetrical.						
2	Does the document satisfy the paper	Refer to Section 1.2.						
	specification?							
3	Check if the user-specific offset adjustment	Refer to Software Operation Panel.						
	is performed on the Software Operation	(Section $8.5.1 \sim 8.5.3.3$)						
	Panel.							
4	Clean the Feed rollers and Pinch rollers, and	Cleaning the inside of Scanner: Refer to Section 8.3.2.						
	see if the error is resolved.							
5	Perform Offset adjustment in Maintenance	Maintenance mode – Test mode #3: Offset adjustment						
	mode.	(Section 7.1.4)						
6	Check the installation of the Optical Unit	Reinstall it if not installed correctly and see if the error is						
	that scanned abnormally.	resolved.						
		Optical Unit						
		Front side scanning: Refer to Section 6.11.2.						
		Back side scanning: Refer to Section 6.10.3.						

5.1.4.5 Scan magnification error is too large (Main scanning direction: Horizontal)

Item	Check items	How/where to check
No.		
1	Check the Optical Unit installation at the	Optical Unit
	abnormal scanning side.	Front side scanning: Refer to Section 6.11.2.
2	Replace the Optical Unit, and see if the	Back side scanning: Refer to Section 6.10.3.
	error is resolved.	

									Name	fi-6′ Maintenan	110 Ice N	lanual
03	Dec 20, 11	Yashima	a Ueda	Maki	Refer to Rev	Refer to Revision Record on page 2.						
02	Aug. 2, 10	K.Okada	a A.Miyoshi	I.Fujioka	Refer to Rev	Refer to Revision Record on page 2.			No.	P1PA03607	7 — E	300X/6
Rev.	DATE	DESIG.	CHECK	APPR.	DESCRIPTIO	DN					Daga	52 /
DES	SIG. July 1	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	РГ		Page	152

5.1.4.6 Scan magnification error is too large (Sub-scanning direction: Vertical)

Item No.	Check items	How/where to check
1	Check if the user-specific magnification adjustment is performed on the Software	Refer to Software Operation Panel. (Section 8.5.1 \sim 8.5.3.3)
	Operation Panel.	
2	Clean the Feed rollers and Pinch rollers, and see if the error is resolved.	Cleaning the inside of Scanner: Refer to Section 8.3.2.
3	Do any foreign obstacles that may block feeding operation exist on the feeding path?	Examine peripheral part of the Feed rollers.
4	Are the belts damaged? Are they installed correctly?	Motor Refer to Section 6.11.6.
5	Replace the Motor, and see if the error is resolved.	
6	Is the Optical Unit installed correctly?	FX: Refer to Section 6.12.1.
7	Replace the Optical Unit, and see if the error is resolved.	RV: Refer to Section 6.13.1.

5.1.4.7 Vertical streaks appear in scanned image

Item	Check items	How/where to check				
No.						
1	Check the item in the right column.	Interface cable connection				
2	Check if the scanning area and white	Clean if dirty.				
	reference area are dirty or have					
	damages.	If the scanning section/white reference is damaged, replace the				
		Revolve Unit and Fixed Unit.				
		The front side scanning area and the white reference area is				
		separated into two; Revolve Unit and Fixed Unit.				
		A				
		For front side , vertical streaks and cleaning position are on the				
		same side:				
		Vertical streaks on the left: Clean the left side.				
		Vertical streaks on the right: Clean the right side.				
		For backside , vertical streaks and cleaning position are				
		left-right reversal:				
		Vertical streaks on the left: Clean the right side.				
		Vertical streaks on the right: Clean the left side.				
3	Check that the cables between the Optical	Unit and Control PCA are connected correctly and not damaged.				
4	Check if there are any dirt or damages	If the scanning area is dirty, clean the Optical Unit.				
	on the scanning area of the Optical Unit					
	that generates vertical streaks.	If there are damages on the scanning area or inside is dirty,				
	-	replace the Optical Unit.				
5	Replace the Control PCA/Analog PCA,	Refer to Section 6.7.1.				
	and see if the error is resolved.					

5.1.4.8 White area of scanned image is not correct

Item No.	Check items	How/where to check					
1	Check the items listed in the right column.	 Are the scan settings (density/colors) correctly specified for the application software used? The white reference area on the ADF scanning section is not dirty. 					
2	Perform White level adjustment in Maintenance mode.	Maintenance mode – Test mode #4: White level adjustment (Section 7.1.5)					

									Name	fi-6′ Maintenar	110 Ice N	lanual
03	Dec 20, 11	Yashima	a Ueda	Maki	Refer to Revision Record on page 2. Drawing							
02	Aug. 2, 10	K.Okada	a A.Miyoshi	I.Fujioka	Refer to Rev	Refer to Revision Record on page 2.			No.	P1PA03607	7 — E	300X/6
Rev.	DATE	DESIG.	CHECK	APPR.	DESCRIPTIO	DN					Daga	53 /
DE	SIG. July 1	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	РГ		Page	152

Chapter 6 Maintenance Procedure

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

6.1 For Safety Operation

Read this page carefully before disassembling or assembling.

Electric shock

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

Injury

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

Machine damage

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

Notes when cleaning

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

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

									Name	fi-6110 Maintenance Manual
03	Dec 20, 11	Yashima	Ueda	Maki	Refer to Rev	vision Record	on page 2		Drawing	
02	Aug. 2, 10	K.Okada	A.Miyoshi	I.Fujioka	Refer to Rev	ision Record	on page 2		No.	P1PA03607-B00X/6
Rev.	DATE	DESIG.	CHECK	APPR.	DESCRIPTIC	DN			DE	
DE	SIG. July 1	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	P	

6.2 Periodic Maintenance

Perform the periodic maintenance on the scanner by following the items below.

6.2.1 Periodic Maintenance Items

No.	Item			Remarks
1	Inquiry to the user	Check the scanner status • Scanned image • Status of use • Errors	Check the scanned image status.	
2	Check	Clean the scanner • Pad ASSY • Ultrasonic Sensor • Idler Roller • Glass • Pick Roller • Feed Roller • Eject Roller	Clean the scanner by referring to Section 8.3 "Cleaning".	
		Check the operation (Maintenance Mode) • Paper Feeding Test • Sensor Test	 Check each operation by referring to Chapter 7 "Adjustment/Settings". Paper feeding operation is normal. Motor operation and sounds are normal. Sensors and lamps are normal. 	

6.3 Cleaning

6.3.1 Optical Unit

Clean the Optical Unit in the following procedure.

- (1) Remove the Optical Unit by referring to Section 6.9.3 (Revolve Unit) or Section 6.10.5 (Fixed Unit).
- (2) Wipe the mirror inside of the Optical Unit with a soft dry cloth or blower brush. Make sure no fiber remains on the mirror surface.



(3) After cleaning, install the Optical Unit in the reverse procedure of removal.

NOTICE Note the following when cleaning the Optical Unit:

- If the mirror surface is cleaned with solvent such as paint thinner, residue may remain. Wipe it with a soft dry cloth or blower brush.
- The reflection surface of the mirror (evaporated surface) is located inside of the Optical Unit.
- Clean the Optical Unit at dust-free area.
- Do NOT remove the mirror from the Optical Unit.

									Name	fi-6 [⁄] Maintenar	110 Ice N	lanual
03	Dec 20, 11	Yashim	a Ueda	Maki	Refer to Rev	vision Record	on page 2		Drawing			
02	Aug. 2, 10	K.Okad	a A.Miyoshi	I.Fujioka	Refer to Rev	vision Record	on page 2		No.	P1PA03607	7 — E	300X/6
Rev.	DATE	DESIG.	CHECK	APPR.	DESCRIPTIO	DN					Daga	55 /
DE	SIG. July 1	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	РГ		Page	/152

6.4 Maintenance Tools

6.4.1 Maintenance Tool List

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

No.	Tools	Remarks	Purpose
1	Phillips screwdriver	For M3 screws	
2	Small Phillips screwdriver	For M2, M2.5 screws	
3	Small flat-blade screwdriver		Removing the ADF Open sensor, E-rings and connectors
4	Longnose pliers		Installing E-ring
5	Spring gauge		Adjusting the belt tension
6	Alcohol	Ethyl alcohol	Cleaning glasses * Do not use for the outer covers and plastic parts.
7	Blower brush		Cleaning mirrors
8	Cloth	Bleached or nonwoven cloth	Cleaning

6.4.2 Test Chart List

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

No.	Chart Name (Part Number)	Quantity	Remarks	Purpose
1	ADJUST-CHART-A4 (PA93010-Y790)	1	210 x 297 mm Refer to Section 4.1.1 for the maintenance parts for which adjustments are required.	Paper feeding test Main/Sub-scan magnification adjustment Offset adjustment
3	TEST CHART (W) (PA03277-Y123)	1	215 x 297 mm (A4 coated paper) Refer to Section 4.1.1 for the maintenance parts for which adjustments are required.	White level adjustment

										Name	fi-6′ Maintenan	110 Ice N	lanual
03	Dec	20,11	Yashima	Ueda	Maki	Refer to Rev	ision Record	on page 2		Drawing			
02	Auş	g. 2, 10	K.Okada	A.Miyoshi	I.Fujioka	Refer to Rev	vision Record	on page 2.		No.	P1PA03607	7—E	300X/6
Rev.	D	ATE	DESIG.	CHECK	APPR.	DESCRIPTIO	DN			DE		Daga	56 /
DE	SIG.	July 15	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	РГ		rage	/152

6.5 Non-disassembly Parts

6.5.1 Non-disassembly Parts (Optical Unit)

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



										Name	fi-6 [,] Maintenar	110 Ice N	lanual
03	Dec 20,	, 11 Y	Yashima	Ueda	Maki	Refer to Rev	ision Record	on page 2		Drawing			
02	Aug. 2,	, 10 K	K.Okada	A.Miyoshi	I.Fujioka	Refer to Rev	vision Record	on page 2		No.	P1PA03607	7—E	300X/6
Rev.	DAT	Εl	DESIG.	CHECK	APPR.	DESCRIPTIO	DN			DELLI MITED Dago 57/			
DE	SIG. Ju	ly 15,2	2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	P			

6.6 Removing the Power Cable, USB Cable

NOTICE

Refer to the following sections for the part number and appearance of the maintenance parts:

- AC adapter: Section 4.2.24
- AC cable: Section 4.2.25
- USB cable: Section 4.2.26

<Removal>

- (1) Turn off the power of the scanner. (Refer to Section 8.1.1 "Turning the Power ON/OFF".)
- (2) Unplug the power cable (AC adapter and AC cable) that is connected to the scanner.
- (3) Unplug the USB cable that is connected to the scanner.



<Installation>

Follow the above procedure in reverse.

									Name	fi-6′ Maintenan	110 Ice N	lanual
03	Dec 20,	1 Yashim	a Ueda	Maki	Refer to Rev	ision Record	on page 2	2.	Drawing			
02	Aug. 2,	0 K.Okad	a A.Miyoshi	I.Fujioka	Refer to Rev	vision Record	on page 2		No.	P1PA03607	7 — E	300X/6
Rev.	DATI	DESIG	CHECK	APPR.	DESCRIPTIO	DN			DE		Daga	58 /
DE	SIG. July	15,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	РГ		Page	152

6.7 Removing the Control Board

6.7.1 Control PCA / Analog PCA

NOTICE

Refer to the following sections for the part number and appearance of the maintenance parts: • Control PCA: Section 4.2.1

- Analog PCA: Section 4.2.2

```
<Removal>
```

- (1) Remove the Chute ASSY. (Refer to Section 6.8.1.)
- (2) Remove four screws B (circled) securing the PCA Unit at the bottom of the scanner.



(3) Draw out the PCA Unit halfway, and disconnect all of seven connectors (enclosed with square) on the Analog PCA.

MOTICE

Be careful not to damage the cables when disconnecting the connectors.



(4) Pull out the PCA Unit to remove.



									Name	fi-6 [⁄] Maintenar	110 nce N	lanual
03	Dec 20, 11	Yashima	a Ueda	Maki	Refer to Rev	vision Record	on page 2	2.	Drawing			
02	Aug. 2, 10	K.Okada	a A.Miyoshi	I.Fujioka	Refer to Rev	vision Record	on page 2		No.	P1PA03607	7 — E	300X/6
Rev.	DATE	DESIG.	CHECK	APPR.	DESCRIPTIO	DN					Daga	59 /
DE	SIG. July 1:	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	P		Page	/152

Section 6.7.1

(5) Remove three screws B (circled) and a screw A (enclosed with square) securing the Control PCA and Analog PCA, and then remove the Control PCA and Analog PCA from the PCA Unit cover.



(6) Disconnect the connector that connects the Control PCA and Analog PCA, and then separate these PCAs.



<Installation>

Follow the above procedure in reverse.

NOTICE

Note the following at installation:

- Check that the connector that connects the Control PCA and Analog PCA is securely inseted.
- Do not get the screw types confused.
- Refer to Section 6.13.2 "Cable Wiring at PCA Unit" when connecting the cable.

									Name	fi-6110 Maintenance Manual
03	Dec 20, 11	Yashima	Ueda	Maki	Refer to Rev	vision Record	on page 2	2.	Drawing	
02	Aug. 2, 10	K.Okada	a A.Miyoshi	I.Fujioka	Refer to Rev	vision Record	on page 2		No.	P1PA03607-B00X/6
Rev.	DATE	DESIG.	CHECK	APPR.	DESCRIPTIO	DN				
DE	SIG. July 1	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	P	

6.8 Replacing the Outer Covers

6.8.1 Chute ASSY



Refer to Section 4.2.3 for the part number and appearance of the Chute ASSY. <Removal>

Raise the both sides of the Chute ASSY, and pull it out of the scanner.



<Installation>

Follow the above procedure in reverse.

6.8.2 Stacker ASSY



Refer to Section 4.2.4 for the part number and appearance of the Stacker ASSY. <Removal>

(1) Open the Stacker.



(2) Detach the pin at right side from the installation hole to remove the Stacker.



<Installation>

Follow the above procedure in reverse.

										Name	fi-6 [.] Maintenar	110 nce N	lanual
03	Dec	20,11	Yashima	Ueda	Maki	Refer to Rev	vision Record	on page 2	-	Drawing			
02	Auş	g. 2, 10	K.Okada	A.Miyoshi	I.Fujioka	Refer to Rev	ision Record	on page 2		No.	P1PA03607	7 — E	300X/6
Rev.	D	ATE	DESIG.	CHECK	APPR.	DESCRIPTIC	DN			DE		Dogo	61
DE	SIG.	July 15	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	Pr		rage	/152

6.8.3 Guide P ASSY

Refer to Section 4.2.5 for the part number and appearance of the Guide P ASSY.

<Removal>

- (1) Remove the Chute ASSY. (Refer to Section 6.8.1.)
- (2) Open the ADF. (Refer to Section 8.1.2.)
- (3) Pinch the both sides of the Guide P ASSY, and push two tabs inward to remove.



<Installation>

Follow the above procedure in reverse.

										Name	fi-61 Maintenand	10 ce N	lanual
03	Dec 2	20, 11	Yashima	Ueda	Maki	Refer to Rev	vision Record	on page 2		Drawing		_	
02	Aug.	2,10	K.Okada	A.Miyoshi	I.Fujioka	Refer to Rev	vision Record	on page 2		No.	P1PA03607	— E	800X/6
Rev.	DA	ΤE	DESIG.	CHECK	APPR.	DESCRIPTIO	DN			DE		Daga	62 /
DE	SIG. J	July 15	,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	РГ		гаде	152

6.8.4 Top Cover ASSY

NOTICE

Refer to Section 4.2.7 for the part number and appearance of the Top Cover ASSY. Panel PCA is not included in the Top Cover ASSY.

<Removal>

- (1) Remove the following parts.
 - Chute ASSY (Refer to Section 6.8.1.)
 - Stacker ASSY (Refer to Section 6.8.2.)
 - Panel PCA (Refer to steps (2) to (4) in Section 6.10.1.)
- (2) Remove two tapping screws B at both sides of the Top Cover ASSY (enclosed with square).



(3) Push two tabs A (circled) with a flat-blade screwdriver to unhook. <u>* Be careful not to damage the cover.</u>



(4) Unhook two tabs B at right and left side of the Top Cover ASSY while widening them in the direction of the arrow.



									Name	fi-6 [/] Maintenar	110 nce N	lanual
03	Dec 20, 11	Yashima	Ueda	Maki	Refer to Rev	ision Record	on page 2	·	Drawing			
02	Aug. 2, 10	K.Okada	A.Miyoshi	I.Fujioka	Refer to Rev	ision Record	on page 2		No.	P1PA03607	7—E	300X/6
Rev.	DATE	DESIG.	CHECK	APPR.	DESCRIPTIO	N			DE		Dogo	63
DE	SIG. July 1:	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	F		Faye	/152

Section 6.8.4

(5) Lift up the Top Cover ASSY to unlock four tabs C (enclosed with square) while pushing the ADF Release Tab, and then remove the Top Cover ASSY.



<Installation>

Follow the above procedure in reverse.

									Name	fi-6110 Maintenance Ma	nual
03	Dec 20, 1	Yashima	Ueda	Maki	Refer to Revi	ision Record	on page 2	-	Drawing		
02	Aug. 2, 10	K.Okada	A.Miyoshi	I.Fujioka	Refer to Revi	ision Record	on page 2		No.	P1PA03607-B0	0X/6
Rev.	DATE	DESIG.	CHECK	APPR.	DESCRIPTIO	N			DE		64 /
DE	SIG. July	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	Pr		/152

6.8.5 Guide A



Refer to Section 4.2.6 for the part number and appearance of the Guide A.

<Removal>

- (1) Remove the following parts.
 - Chute ASSY (Refer to Section 6.8.1.)
 - Stacker ASSY (Refer to Section 6.8.2.)
 - Guide P ASSY (Refer to Section 6.8.3.)
 - PCA Unit [in the removal procedure for Control PCA/Analog PCA] (Refer to steps (2) to (4) in Section 6.7.1.)
 - Base Cover ASSY [in the removal procedure for Optical Unit (for front side scanning)] (Refer to step (2) in Section 6.11.2.)
 - Panel PCA (Refer to steps (2) to (4) in Section 6.10.1.)
 - Top Cover ASSY (Refer to steps (2) to (3) in Section 6.8.4.)
- (2) Open two tabs at both sides of the Guide A to unlock, and remove the Guide A.



<Installation>

Follow the above procedure in reverse.



Note the following at installation:

Refer to Section 6.13.2 "Cable Wiring at PCA Unit" when connecting the cable.

										Name	fi-6′ Maintenan	110 Ice N	lanual
03	Dec 20	0,11	Yashima	u Ueda	Maki	Refer to Rev	ision Record	on page 2	2.	Drawing			
02	Aug. 2	2, 10	K.Okada	a A.Miyoshi	I.Fujioka	Refer to Rev	vision Record	on page 2		No.	P1PA03607	7 — E	300X/6
Rev.	DAT	ΤE	DESIG.	CHECK	APPR.	DESCRIPTIO	DN			DE		Daga	65 /
DE	SIG. Jı	uly 15	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	РГ		Page	152

Section 6.9

6.9 Replacing the Revolve Unit / Fixed Unit

NOTICE

Refer to the following sections for the part number and appearance of the maintenance parts:

- Revolve Unit: Section 4.2.8
- Fixed Unit: Section 4.2.17

Panel PCA is not included in the Revolve Unit.

<Removal>

- (1) Remove the following parts.
 - Chute ASSY (Refer to Section 6.8.1.)
 - Stacker ASSY (Refer to Section 6.8.2.)
 - Guide P ASSY (Refer to Section 6.8.3.)
 - PCA Unit [in the removal procedure for Control PCA/Analog PCA] (Refer to steps (2) to (4) in Section 6.7.1.)
 - Base Cover ASSY [in the removal procedure for Optical Unit (for front side scanning)] (Refer to step (2) in Section 6.11.2.)
 - Panel PCA (Refer to steps (2) to (4) in Section 6.10.1.)
 - Top Cover ASSY (Refer to steps (2) to (3) in Section 6.8.4.)
 - Guide A (Refer to step (2) in Section 6.8.5.)
- (2) Remove a screw B securing the FG Cable from side of the Fixed unit.
- (3) Disconnect a connector on the Cover Open Sensor.

NOTICE

The connector cable on the Cover Open Sensor is easy to come off. Do not hold the cable when disconnecting it.

(4) Pull the cable at the side of the Revolve Unit out of the Fixed Unit.



(5) Remove a tapping screw B securing the FG Cable from the bottom of the Fixed unit, and pull the US RV Cable out of the Fixed Unit.



									Name	fi-6 [/] Maintenar	110 nce N	lanual
03	Dec 20, 11	Yashima	a Ueda	Maki	Refer to Rev	vision Record	on page 2	2.	Drawing			
02	Aug. 2, 10	K.Okada	a A.Miyoshi	I.Fujioka	Refer to Rev	vision Record	on page 2	2.	No.	P1PA03607	7 — E	300X/6
Rev.	DATE	DESIG.	CHECK	APPR.	DESCRIPTIO	ON		_	DE		Dogo	66 /
DE	SIG. July 15	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	P		rage	/152

Section 6.9

(6) Insert a flat-blade screwdriver into the groove near the fulcrum pin (right side), unlatch the fulcrum pin at one side from the hole, and then unlatch another pin at the other side.



(7) Separate the Fixed Unit and Revolve Unit.



									Name	fi-61 Maintenan	110 Ice N	lanual
03	Dec 20, 11	Yashima	Ueda	Maki	Refer to Rev	ision Record	on page 2	2.	Drawing			
02	Aug. 2, 10	K.Okada	A.Miyoshi	I.Fujioka	Refer to Revi	ision Record	on page 2		No.	P1PA03607	7 — E	300X/6
Rev.	DATE	DESIG.	CHECK	APPR.	DESCRIPTIO	N					Dogo	67 /
DE	SIG. July 1	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	РГ		Page	152

<Installation>

Follow the above procedure in reverse.

Note the following at installation:

- After replacing the parts, perform adjustments by referring to Section 4.1.1 "Adjustments after Maintenance Parts Replacement".
- Refer to Section 6.13.1 "Wiring and Clamping at Shield Cover" when connecting the cable at the Shield Cover.
- Refer to Section 6.13.2 "Cable Wiring at PCA Unit" when connecting the cable at the PCA Unit.
- Route the cables as shown in the photo below.



• The Revolve Unit includes the Pick Roller and Fixed Unit includes the Pad ASSY. After replacing the Fixed Unit, be sure to reset the Pick Roller counter. (Refer to Section 8.6.4.2.) After replacing the Revolve unit, be sure to reset the Pad ASSY counter. (Refer to Section 8.6.4.2.)

									Name	fi-6′ Maintenan	110 Ice N	lanual
03	Dec 20, 11	Yashima	Ueda	Maki	Refer to Rev	vision Record	on page 2	2.	Drawing			
02	Aug. 2, 10	K.Okada	a A.Miyoshi	I.Fujioka	Refer to Rev	vision Record	on page 2		No.	P1PA03607	7—E	300X/6
Rev.	DATE	DESIG.	CHECK	APPR.	DESCRIPTIO	DN					Daga	68 /
DE	SIG. July 1	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	РГ		Page	152

6.10 Replacing the Parts inside the Revolve Unit

6.10.1 Panel PCA

- Refer to Section 4.2.12 for the part number and appearance of the Panel PCA.

The Panel PCA includes the EEPROM. Back up the EEPROM data temporarily before replacing the Panel PCA. (Refer to Section 7.2 "Saving EEPROM Data".)

<Removal>

- (1) Open the Stacker. (Refer to step (1) in Section 6.8.2.)
- (2) Open the ADF. (Refer to Section 8.1.2.)
- (3) Unlatch a tab (enclosed with square) securing the Panel Cover from back of the Top Cover, and then remove the Panel Cover from front of the Top Cover.





(4) Pull out the Panel PCA, disconnect two connectors (enclosed with square), and remove the Panel PCA.



<Installation>

Follow the above procedure in reverse.

Note the following at installation:

• After replacing the parts, perform adjustments by referring to Section 4.1.1 "Adjustments after Maintenance Parts Replacement".

After replacing the Panel PCA, be sure to restore the EEPROM data from the Control PCA to the Panel PCA.

										Name	fi-6 Maintena	110 nce N	lanual
03	Dec 20	0, 11	Yashima	Ueda	Maki	Refer to Rev	vision Record	on page 2		Drawing			
02	Aug. 2	2, 10	K.Okada	A.Miyoshi	I.Fujioka	Refer to Rev	rision Record	on page 2		No.	P1PA0360	7—E	300X/6
Rev.	DAT	ΓЕ	DESIG.	CHECK	APPR.	DESCRIPTIO	DN			DE		Daga	69 /
DE	SIG. Ju	uly 15	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	F I		Fage	/152

6.10.2 Empty Sensor / Empty Harness

Refer to the following sections for the part number and appearance of the maintenance parts:

- Empty Sensor: Section 4.2.15
- Empty Harness: Section 4.2.16

<Removal>

- (1) Remove the following parts.
 - Chute ASSY (Refer to Section 6.8.1.)
 - Stacker ASSY (Refer to Section 6.8.2.)
 - Panel PCA (Refer to steps (2) to (4) in Section 6.10.1.)
 - Top Cover ASSY (Refer to steps (2) to (3) in Section 6.8.4.)
- (2) Unlatch the Empty Holder from the Empty Holder fixing tab.



(3) Remove a tapping screw B from the removed Empty Holder, and remove the Empty Sensor with Empty Harness.



(4) Separate the Empty Sensor and Empty Harness





<Installation>

Follow the above procedure in reverse.

NOTICE

Note the following at installation:

After replacing the parts, perform adjustments by referring to Section 4.1.1 "Adjustments after Maintenance Parts Replacement".

									Name	fi-6 Maintenar	110 nce N	lanual
03	Dec 20, 11	Yashima	Ueda	Maki	Refer to Rev	ision Record	on page 2	2.	Drawing			
02	Aug. 2, 10	K.Okada	A.Miyoshi	I.Fujioka	Refer to Rev	vision Record	on page 2	-	No.	P1PA0360	7—E	300X/6
Rev.	DATE	DESIG.	CHECK	APPR.	DESCRIPTIO	DN			DE		Dogo	70 /
DES	SIG. July 1	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	F I		Faye	/152

6.10.3 Optical Unit [for Backside Scanning]

Refer to Section 4.2.11 for the part number and appearance of the Optical Unit. <Removal>

- (1) Remove the following parts.
 - Chute ASSY (Refer to Section 6.8.1.)
 - Stacker ASSY (Refer to Section 6.8.2.)
 - Panel PCA (Refer to steps (2) to (4) in Section 6.10.1.)
 - Top Cover ASSY (Refer to steps (2) to (3) in Section 6.8.4.)
 - Empty Holder [in the removal procedure for Empty Sensor / Empty Harness] (Refer to step (2) in Section 6.10.2.)
- (2) Disconnect the BS Harness connector (circled) from the Optical Unit.
- (3) Unlatch the tabs (two at each side, enclosed with square) on the Revolve Unit, which secure the Optical Unit.



<Installation>

Follow the above procedure in reverse.

NOTICE

Note the following at installation:

- Check that the Optical Unit is securely latched to the two tabs on the Fixed Unit.
- Route the cables as shown in the photo below.
- After replacing the parts, perform adjustments by referring to Section 4.1.1 "Adjustments after Maintenance Parts Replacement".



									Name	fi-61 Maintenan	110 Ice N	lanual
03	Dec 20, 1	1 Yashima	u Ueda	Maki	Refer to Rev	ision Record	on page 2		Drawing			
02	Aug. 2, 1) K.Okada	a A.Miyoshi	I.Fujioka	Refer to Rev	vision Record	on page 2		No.	P1PA03607	7 — E	300X/6
Rev.	DATE	DESIG.	CHECK	APPR.	DESCRIPTIO	DN			DE		Dogo	71
DE	SIG. July	15,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	F I		гауе	/152

Section 6.10.4

6.10.4 Inverter [for Backside Scanning]

Refer to Section 4.2.10 for the part number and appearance of the Inverter.

<Removal>

- (1) Remove the following parts.
 - Chute ASSY (Refer to Section 6.8.1.)
 - Stacker ASSY (Refer to Section 6.8.2.)
 - Panel PCA (Refer to steps (2) to (4) in Section 6.10.1.)
 - Top Cover ASSY (Refer to steps (2) to (3) in Section 6.8.4.)
 - Empty Holder [in the removal procedure for Empty Sensor / Empty Harness] (Refer to step (2) in Section 6.10.2.)
 - Optical Unit [for backside scanning] (Refer to steps (2) to (3) in Section 6.10.3.)
- (2) Disconnect two connectors connected to the Inverter (enclosed with square).
- (3) Unlatch an Inverter fixing tab (enclosed with square), and then remove the Inverter from two aligning positions (circled).



<Installation>

Follow the above procedure in reverse.

Note the following at installation:

After replacing the parts, perform adjustments by referring to Section 4.1.1 "Adjustments after Maintenance Parts Replacement".

									Name	fi-6110 Maintenance) e Manual
03	Dec 20, 11	Yashima	Ueda	Maki	Refer to Rev	vision Record	on page 2	-	Drawing		
02	Aug. 2, 10	K.Okada	A.Miyoshi	I.Fujioka	Refer to Rev	vision Record of	on page 2		No.	P1PA03607-	-B00X/6
Rev.	DATE	DESIG.	CHECK	APPR.	DESCRIPTIO	DN			DE		72
DE	SIG. July 1	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	РГ		152 /152
6.10.5 Lamp [for Backside Scanning]

Refer to Section 4.2.9 for the part number and appearance of the Lamp.

<Removal>

- (1) Remove the following parts.
 - Chute ASSY (Refer to Section 6.8.1.)
 - Stacker ASSY (Refer to Section 6.8.2.)
 - Panel PCA (Refer to steps (2) to (4) in Section 6.10.1.)
 - Top Cover ASSY (Refer to steps (2) to (3) in Section 6.8.4.)
 - Empty Holder [in the removal procedure for Empty Sensor / Empty Harness] (Refer to step (2) in Section 6.10.2.)
- Optical Unit [for Backside scanning] (Refer to steps (2) to (3) in Section 6.10.3.)
- (2) Disconnect a connector for the Lamp from the Inverter (enclosed with square).
- (3) Remove two tapping screws B (circled) securing the Reflector, and then remove the Reflector.



(4) Disconnect a connector for the Lamp from the Inverter (enclosed with square).

A fluorescent tube (glass) is used for the Lamp. It will easily break which may cause injury. Handle it with care.



									Name	fi-6 [⁄] Maintenar	110 Ice N	lanual
03	Dec 20, 1	1 Yashim	a Ueda	Maki	Refer to Rev	vision Record	on page 2		Drawing			
02	Aug. 2, 1) K.Okać	a A.Miyoshi	I.Fujioka	Refer to Rev	vision Record	on page 2		No.	P1PA03607	7—E	300X/6
Rev.	DATE	DESIG	. CHECK	APPR.	DESCRIPTIO	DN				73 /		
DES	SIG. July	15,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	a PFU LIVIII ED Page /152			/152

<Installation>

Follow the above procedure in reverse.



Note the following at installation:

- A fluorescent tube (glass) is used for the Lamp. It will easily break which may cause injury. Handle it with care.
- Insert the Reflector sheet between the Lamp and frame.
- Bump the edge of the Lamp into the Revolve frame.



Bump the edge of the Lamp into the Revolve Frame.

• Route the Lamp cables through the groove on the Revolve frame as shown in the photos below.



* The fat cable must come above the thin cable when routing the cables in the gap on the Revolve frame.



* Tuck the cable in the gap on the Revolve frame.

									Name	fi-6 [⁄] Maintenar	110 Ice N	lanual
03	Dec 20, 11	Yashima	Ueda	Maki	Refer to Revi	ision Record	on page 2	2.	Drawing			
02	Aug. 2, 10	K.Okada	A.Miyoshi	I.Fujioka	Refer to Revi	ision Record	on page 2		No.	P1PA03607	7—E	300X/6
Rev.	DATE	DESIG.	CHECK	APPR.	DESCRIPTION				DE		Daga	74 /
DE	SIG. July 1:	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	Pr		rage	/152

Section 6.10.5

When installaing the Reflector, bump it in the direction of the arrow, and tighten with the tapping screw B.

•

•



Bump the Reflector in the direction of the arrow, and fix with the tapping screw B.

When installaing the Reflector, the Reflector should not step upon the rubber on the lamp soecket.



After replacing the parts, perform adjustments by referring to Section 4.1.1 "Adjustments after Maintenance Parts Replacement".

									Name	fi-6 [,] Maintenar	110 Ice N	lanual
03	Dec 20, 11	Yashima	Ueda	Maki	Refer to Rev	vision Record	on page 2) /.	Drawing			
02	Aug. 2, 10	K.Okada	A.Miyoshi	I.Fujioka	Refer to Rev	vision Record	on page 2	-	No.	P1PA03607	7—E	300X/6
Rev.	DATE	DESIG.	CHECK	APPR.	DESCRIPTIO	DN					Daga	75
DE	SIG. July 1	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	РГ		rage	152

6.10.6 US Sensor RV

NOTICE

Refer to Section 4.2.13 for the part number and appearance of the US Sensor RV.

<Removal>

- (1) Remove the following parts.
 - Chute ASSY (Refer to Section 6.8.1.)
 - Stacker ASSY (Refer to Section 6.8.2.)
 - Panel PCA (Refer to steps (2) to (4) in Section 6.10.1.)
 - Top Cover ASSY (Refer to steps (2) to (3) in Section 6.8.4.)
 - Empty Holder [in the removal procedure for Empty Sensor / Empty Harness] (Refer to step (2) in Section 6.10.2.)
 - Optical Unit [for Backside scanning] (Refer to steps (2) to (3) in Section 6.10.3.)
- (2) Remove the US Sensor Holder.



- (3) Pull out the cable connected to the US Sensor RV while expanding the frame edge in the direction of the arrow, and then remove the US Sensor RV.
- (4) Disconnect a connector (enclosed with square) connected to the US Sensor RV..



									Name	fi-6110 Maintenance Manual	
03	Dec 20, 11	Yashima	a Ueda	Maki	Refer to Rev	ision Record	on page 2		Drawing		
02	Aug. 2, 10	K.Okada	a A.Miyoshi	I.Fujioka	Refer to Rev	vision Record	on page 2		No.	P1PA03607-B00X/6	
Rev.	DATE	DESIG.	CHECK	APPR.	DESCRIPTIO	DN					
DE	SIG. July 1	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	РГ		

<Installation>

Follow the above procedure in reverse.



Note the following at installation:

- Be sure a clicking sound is heard when installing the US Sensor RV.
- Be sure that the US Sensor RV cable is NOT routed above the Inverter.





[No good!] The [US Sensor RV cable] is routed above the [Inverter].

· Be sure that the US Sensor RV cable is NOT routed above or tacked by the US Sensor Holder





[No good!] The [US Sensor RV cable] is routed above the [US Sensor Holder].

After replacing the parts, perform adjustments by referring to Section 4.1.1 "Adjustments after Maintenance Parts Replacement".

									Name	fi-6′ Maintenan	110 Ice N	lanual
03	Dec 20, 11	Yashima	Ueda	Maki	Refer to Rev	ision Record	on page 2	2.	Drawing			
02	Aug. 2, 10	K.Okada	A.Miyoshi	I.Fujioka	Refer to Revi	ision Record	on page 2		No.	P1PA03607	7 — E	300X/6
Rev.	DATE	DESIG.	CHECK	APPR.	DESCRIPTIO	N						77 /
DE	SIG. July 1:	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	РГ		Page	152

6.10.7 Sensor ASSY B3

Refer to Section 4.2.14 for the part number and appearance of the Sensor ASSY B3.

When removing the Sensor ASSY B3, pulling out the [Feed FG Plate] forcibly may change its shape. The deformed [Feed FG Plate] cannot be grounded properly, which may cause communication error or malfunction by static electricity. When removing/installing the Sensor ASSY B3, be sure to follow the removal procedure below to avoid the Feed FG Plate deformation.

<Removal>

- (1) Remove the following parts.
 - Chute ASSY (Refer to Section 6.8.1.)
 - Stacker ASSY (Refer to Section 6.8.2.)
 - Guide P ASSY (Refer to Section 6.8.3.)
 - PCA Unit [in the removal procedure for Control PCA/Analog PCA] (Refer to steps (2) to (4) in Section 6.7.1.)
 - Panel PCA (Refer to steps (2) to (4) in Section 6.10.1.)
 - Top Cover ASSY (Refer to steps (2) to (3) in Section 6.8.4.)
 - Base Cover ASSY [in the removal procedure for Optical Unit (for front side scanning)] (Refer to step (2) in Section 6.11.2.)
 - Empty Holder [in the removal procedure for Empty Sensor/Empty Harness] (Refer to step (2) in Section 6.10.2.)
 - Optical Unit [for backside scanning] (Refer to steps (2) to (3) in Section 6.10.3.)
 - Inverter [for backside scanning] (Refer to steps (2) to (3) in Section 6.10.4.)
- (2) Remove two Lock Springs at both sides of the Revolve Unit.



(3) Remove two Lock Arms at both sides of the Revolve Unit from the Lock Shaft.



										Name	fi-6 Maintenar	110 nce N	lanual
03	Dec 20	, 11	Yashima	u Ueda	Maki	Refer to Rev	vision Record	on page 2	2.	Drawing			
02	Aug. 2	, 10	K.Okada	a A.Miyoshi	I.Fujioka	Refer to Rev	vision Record	on page 2	-	No.	P1PA0360	7—E	300X/6
Rev	DAT	Έ	DESIG.	CHECK	APPR.	DESCRIPTIO	DESCRIPTION					Dogo	78
DE	SIG. Ju	ıly 15	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	FI		гауе	/152

(4) Slide the Lock Shaft to the left, and pull it out from the right side of the Revolve Unit.



(5) Remove three tapping screws B (circled) and a tapping screw A (enclosed with square) securing the Feed FG Plate and Feed Plate, and then remove the Feed FG Plate and Feed Plate.

 Reference

The tapping screw A at right side (tightened with the FG Cable) that secures the Feed Plate has a spring washer.



(6) Unhook two tabs (circled) with a flat-blade screwdriver, and remove the sensor section from the frame.





Unhook the tabs on the Sensor ASSY B3 with a flat-blade screwdriver to remove.

									Name	fi-6′ Maintenan	110 Ice N	lanual
03	Dec 20, 11	Yashima	a Ueda	Maki	Refer to Rev	vision Record	on page 2	2.	Drawing			
02	Aug. 2, 10	K.Okada	a A.Miyoshi	I.Fujioka	Refer to Rev	vision Record	on page 2	-	No.	P1PA03607	7—E	300X/6
Rev.	DATE	DESIG.	CHECK	APPR.	DESCRIPTIO	DESCRIPTION					Daga	79 🖌
DE	SIG. July 1	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka				152

- Section 6.10.7
- (7) Take the Sensor ASSY B3 cables out of each forming, and remove them completely from the Revolve Unit.



<Installation>

Follow the above procedure in reverse.

- The deformed [Feed FG Plate] cannot be grounded properly, which may cause communication error or malfunction by static electricity. When installing the Sensor ASSY B3, be sure to follow the procedure below to avoid the Feed FG Plate deformation.
- Note the following at installation:
- Route the harness under the hooks shown with arrows in the photo below to secure the harness after installing the sensor ASSY B3.



Install the Feed FG Plate after installing the Feed Plate and secure it with the three tapping screw B. The tapping screw A at right side (tightened with the FG Cable) that secures the Feed Plate has a spring washer.



									Name	fi-6′ Maintenar	110 nce N	lanual
03	Dec 20, 11	Yashim	a Ueda	Maki	Refer to Rev	vision Record	on page 2	2.	Drawing			
02	Aug. 2, 10	K.Okad	a A.Miyoshi	I.Fujioka	Refer to Rev	vision Record	on page 2	2.	No.	P1PA03607	7 — E	300X/6
Rev.	DATE	DESIG.	CHECK	APPR.	DESCRIPTIO	DN						80 /
DE	SIG. July 1	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	P		Page	/152

Install the Feed FG Plate after installing the Feed Plate and secure it with the three tapping screw B.
 ① The Feed FG Plate must be drawn through the Revolve frame.



[Good!] Drawn through the Revolve frame hole.



[No good!] Not drawn through the Revolve frame hole. Do not get holes confused when installing the Feed FG Plate.



The photos on the left and below show that the Feed FG plate is installed properly,



Check visually that the Feed FG Plate sticks out. (Amount of protrusion: 0.45mm or more)

② Align the Feed FG Plate with the aligning position of the Feed Plate. (The gap should be 1mm or less.)





Gap between aligning position: 1mm or less

									Name	fi-6′ Maintenan	110 Ice N	lanual
03	Dec 20, 11	Yashima	Ueda	Maki	Refer to Revi	ision Record	on page 2	-	Drawing	_ /		
02	Aug. 2, 10	K.Okada	A.Miyoshi	I.Fujioka	Refer to Revi	ision Record	on page 2		No.	P1PA03607	7 — E	300X/6
Rev.	DATE	DESIG.	CHECK	APPR.	DESCRIPTION	N						81
DE	SIG. July 1:	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	РГ		Page	152

Section 6.10.7

Insert the Lock Arm into the Lock Shaft. Be sure of the two notes below when installing them to fix to the Revolve Frame.



① Do not insert the Lock Arm in the wrong direction.

.

② Install the Lock Spring onto the Lock Arm and then to the Revolve Frame.



										Name	fi-6110 Maintenance Manual
03	Dec 20	0,11	Yashima	a Ueda	Maki	Refer to Rev	vision Record	on page 2		Drawing	
02	Aug. 2	2, 10	K.Okada	a A.Miyoshi	I.Fujioka	Refer to Rev	vision Record	on page 2		No.	P1PA03607-B00X/6
Rev	DAT	ΤE	DESIG.	CHECK	APPR.	DESCRIPTIO	DN	D			
DE	SIG. Ju	fuly 15	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	РГ	

- After installing the Inverter, wire cables by routing them through 1 and 2 below:
- 1 Cable route: Route the cables through the groove (hook) pointed by the arrows to fix.
- ② Cable route: Route the cables through the groove (hook) on the frame to fix.

•





Route the cable through the lower hook.



									Name	fi-6110 Maintenance Manual
03	Dec 20, 11	Yashima	Ueda	Maki	Refer to Rev	vision Record	on page 2	2.	Drawing	
02	Aug. 2, 10	K.Okada	a A.Miyoshi	I.Fujioka	Refer to Rev	vision Record	on page 2		No.	P1PA03607-B00X/6
Rev.	DATE	DESIG.	CHECK	APPR.	DESCRIPTIO	DN				
DE	SIG. July 1:	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	РГ	

- After installation, perform continuity check.
- 1 Check the following conduction between the Pad ASSY and Feed Plate.

Pad ASSY \Leftrightarrow Feed FG Plate \Leftrightarrow Feed Plate

There is one part that is not conducted on the Pad ASSY. Refer to the figure below, and perform the continuity check between the conducted part of the Pad ASSY and Feed Plate with a tester.

If there is no conduction, check if there is deformation on the Feed FG Plate.

The Feed Plate is rust-proofed. If the continuity check is difficult, check it at the screws or edges on the Feed Plate.





② Check the following conduction between the Lock Shaft and FG Plate. Lock Shaft ⇔ Feed FG Plate ⇔ Feed Plate

Refer to the photo below and perform the continuity check between the Lock Shaft and Feed Plate. If there is no conduction, check if there is deformation on the Feed FG Plate.



After replacing the parts, perform adjustments by referring to Section 4.1.1 "Adjustments after Maintenance Parts Replacement".

									Name	fi-6′ Maintenan	110 Ice N	lanual
03	Dec 20, 11	Yashima	Ueda	Maki	Refer to Revision	Record of	on page 2	·	Drawing			
02	Aug. 2, 10	K.Okada	A.Miyoshi	I.Fujioka	Refer to Revision I	Record c	on page 2		No.	P1PA03607	7—E	300X/6
Rev.	DATE	DESIG.	CHECK	APPR.	DESCRIPTION							
DE	SIG. July 15	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	РГ		Page	152

6.11 Replacing the Parts in the Fixed Unit

6.11.1 Pick Shaft ASSY

Refer to Section 4.2.22 for the part number and appearance of the Pick Shaft ASSY.

<Removal>

- (1) Remove the Chute ASSY (Refer to Section 6.8.1.)
- (2) Open the ADF.
- (3) Remove the Sheet Guide (Guide P ASSY).



<u>* Hold the pickup tabs on both ends of the sheet guide</u> (Guide P ASSY) and pull it out as you push the tabs inwards.

(4) Rotate the bushing (left) in the direction of the arrow.



- (5) Slightly pull up the left part of the Pick Shaft ASSY (about 5 mm), move it towards the left side, and then lift it up.
- (6) Remove the Pick Roller from its shaft by lifting the retaining clip.



<Installation>

Follow the above procedure in reverse.

Note the following at installation:

- After replacing the parts, perform adjustments by referring to Section 4.1.1 "Adjustments after Maintenance Parts Replacement".
- The Pick Shaft ASSY does not include the Pick Roller. Reuse the Pick Roller.
- After replacing the Pick Shaft ASSY, make sure that the Pick Shaft ASSY and the Roller are installed securely. Otherwise feeding errors such as paper jam may occur.

										Name	fi-6 [.] Maintenar	110 nce N	lanual
03	Dec 20,	, 11	Yashima	Ueda	Maki	Refer to Rev	vision Record	on page 2	·	Drawing			
02	Aug. 2,	, 10	K.Okada	A.Miyoshi	I.Fujioka	Refer to Rev	ision Record	on page 2		No.	P1PA03607	7 — E	300X/6
Rev.	DAT	Έ	DESIG.	CHECK	APPR.	DESCRIPTIC	DN			DE		Dogo	85 /
DE	SIG. Jul	ıly 15	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	РГ		Fage	/152

6.11.2 Optical Unit [for Front Side Scanning]

Refer to Section 4.2.11 for the part number and appearance of the Optical Unit. <Removal>

- (1) Remove the following parts.
 - Chute ASSY (Refer to Section 6.8.1.)
 - Stacker ASSY (Refer to Section 6.8.2.)
 - PCA Unit [in the removal procedure for Control PCA/Analog PCA] (Refer to steps (2) to (4) in Section 6.7.1.)
 - Guide P ASSY (Refer to Section 6.8.3.)
- (2) Remove the Base Cover ASSY in the direction of the arrow, and separate the joint (tabs) of the Guide A and Base Cover ASSY.
 - · Remove the left side in the same procedure.



(3) Unlatch two tabs A at right and left sides (circled) in the directions of the arrows, and then unlatch one tab B (enclosed with square) upward to remove the Base Cover ASSY.



									Name	fi-6′ Maintenan	110 Ice N	lanual
03	Dec 20, 11	Yashima	a Ueda	Maki	Refer to Rev	vision Record	on page 2	-	Drawing			
02	Aug. 2, 10	K.Okada	a A.Miyoshi	I.Fujioka	Refer to Rev	vision Record	on page 2		No.	P1PA03607	7 — E	300X/6
Rev.	DATE	DESIG.	CHECK	APPR.	DESCRIPTIO	DN			DE		Daga	86 /
DES	SIG. July 1	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	РГ		Page	/152

(4) Remove a screw B (circled) that secures the FG Cable from the side of the Fixed Unit.



(5) Remove a tapping screw B (circled) and a screw B that secure the FG Cable fixed on the Shield Cover to remove the FG Cable.



(6) Remove all cables from four clamps (enclosed with squares) on the Shield Cover.



									Name	fi-6′ Maintenan	110 Ice N	lanual
03	Dec 20, 11	Yashima	u Ueda	Maki	Refer to Rev	ision Record	on page 2		Drawing			
02	Aug. 2, 10	K.Okada	a A.Miyoshi	I.Fujioka	Refer to Rev	ision Record	on page 2		No.	P1PA03607	7 — E	300X/6
Rev.	DATE	DESIG.	CHECK	APPR.	DESCRIPTIO	N					Dogo	87 /
DES	SIG. July 15	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	РГ		Page	/152

Section 6.11.2

(7) Remove two screws B (circled) and two tapping screws B (enclosed with squares) that secure the Shield Cover.



(8) Unlatch two fixing tabs (circled). Lifting five cables upward to pull out, remove the Shield Cover.

Be careful not to damage the cables when pulling them out of the five holes (enclosed with squares) on the Shield Cover.



									Name	fi-6′ Maintenan	110 Ice N	lanual
03	Dec 20, 11	Yashima	Ueda	Maki	Refer to Rev	vision Record	on page 2		Drawing			
02	Aug. 2, 10	K.Okada	A.Miyoshi	I.Fujioka	Refer to Rev	ision Record	on page 2		No.	P1PA03607	7 — E	300X/6
Rev.	DATE	DESIG.	CHECK	APPR.	DESCRIPTIC	DN			DE		Daga	88 /
DE	SIG. July 1	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka			rage	152

(9) Disconnect a connector (enclosed with square) from the Optical Unit.

(10) Unlatch two tabs (circled) on the Fixed Unit, and then unhook the Optical Unit.



<Installation>

Follow the above procedure in reverse.

NOTICE

Note the following at installation:

- After replacing the parts, perform adjustments by referring to Section 4.1.1 "Adjustments after Maintenance Parts Replacement".
- Refer to Section 6.13.1 "Wiring and Clamping at Shield Cover" when connecting the cable at the Shield Cover.
- Refer to Section 6.13.2 "Cable Wiring at PCA Unit" when connecting the cable at the PCA Unit.
- · Check that the Optical Unit is securely latched onto the two tabs on the Fixed Unit.

									Name	fi-6′ Maintenan	110 Ice N	lanual
03	Dec 20, 11	Yashima	Ueda	Maki	Refer to Rev	vision Record	on page 2		Drawing			
02	Aug. 2, 10	K.Okada	A.Miyoshi	I.Fujioka	Refer to Rev	vision Record	on page 2		No.	P1PA03607	7 — E	300X/6
Rev.	DATE	DESIG.	CHECK	APPR.	DESCRIPTIO	DN			DE		Daga	89 /
DE	SIG. July 1.	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	РГ		Page	152

6.11.3 Inverter [for Front Side Scanning]

Refer to Section 4.2.10 for the part number and appearance of the Inverter.

<Removal>

- (1) Remove the following parts.
 - Chute ASSY (Refer to Section 6.8.1.)
 - Stacker ASSY (Refer to Section 6.8.2.)
 - PCA Unit [in the removal procedure for Control PCA/Analog PCA] (Refer to steps (2) to (4) in Section 6.7.1.)
 - Guide P ASSY (Refer to Section 6.8.3.)
 - Optical Unit [for front side scanning] (Refer to steps (2) to (9) in Section 6.11.2.)
- (2) Disconnect two connectors connected to the Inverter (enclosed with square).



(3) Unlatch the lower tab (enclosed with square) that secures the Inverter, raise the Inverter, and then unlatch two tabs (circled) to remove the Inverter.



<Installation>

Follow the above procedure in reverse.

- NOTICE

Note the following at installation:

- After replacing the parts, perform adjustments by referring to Section 4.1.1 "Adjustments after Maintenance Parts Replacement".
- Refer to Section 6.13.1 "Wiring and Clamping at Shield Cover" when connecting the cable at the Shield Cover.
- Refer to Section 6.13.2 "Cable Wiring at PCA Unit" when connecting the cable at the PCA Unit.

									Name	fi-6′ Maintenan	110 Ice N	lanual
03	Dec 20, 11	Yashima	Ueda	Maki	Refer to Rev	vision Record	on page 2		Drawing			
02	Aug. 2, 10	K.Okada	a A.Miyoshi	I.Fujioka	Refer to Rev	vision Record	on page 2		No.	P1PA03607	7 — E	300X/6
Rev.	DATE	DESIG.	CHECK	APPR.	DESCRIPTIO	DN			DE		Daga	90 /
DE	SIG. July 1	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka			rage	152

6.11.4 Lamp [for Front Side Scanning]

Refer to Section 4.2.9 for the part number and appearance of the Lamp. <Removal>

- (1) Remove the following parts.
 - Chute ASSY (Refer to Section 6.8.1.)
 - Stacker ASSY (Refer to Section 6.8.2.)
 - PCA Unit [in the removal procedure for Control PCA/Analog PCA] (Refer to steps (2) to (4) in Section 6.7.1.)
 - Guide P ASSY (Refer to Section 6.8.3.)
 - Optical Unit [for front side scanning] (Refer to steps (2) to (9) in Section 6.11.2.)
- (2) Disconnect a connector for the Lamp from the Inverter (enclosed with square).
- (3) Remove two tapping screws B (circled) securing the Reflector, and then remove the Reflector.



(4) Remove the Lamp from the Fixed Unit frame to remove.

- NOTICE

A fluorescent tube (glass) is used for the Lamp. It will easily break which may cause injury. Handle it with care.



									Name	fi-6 [/] Maintenar	110 nce N	lanual
03	Dec 20, 11	Yashim	a Ueda	Maki	Refer to Rev	vision Record	on page 2	2.	Drawing		7 F	
02	Aug. 2, 10	K.Okad	a A.Miyoshi	I.Fujioka	Refer to Rev	ision Record	on page 2		No.	P1PA0360	/ — E	SUUX/6
Rev.	DATE	DESIG.	CHECK	APPR.	DESCRIPTIO	ON			DE		Dogo	91
DE	SIG. July 1	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	F		гауе	/152

<Installation>

Follow the above procedure in reverse.



Note the following at installation:

- A fluorescent tube (glass) is used for the Lamp. It will easily break which may cause injury. Handle it with care.
- Insert the Reflector sheet between the Lamp and frame.
- Bump the edge of the Lamp into the Fixed frame.



• Route the Lamp cables through the groove on the Fixed frame as shown in the photos below.



									Name	fi-6′ Maintenar	110 Ice N	lanual
03	Dec 20, 11	Yashima	u Ueda	Maki	Refer to Rev	ision Record	on page 2)	Drawing	_ /	_	
02	Aug. 2, 10	K.Okada	a A.Miyoshi	I.Fujioka	Refer to Rev	vision Record	on page 2		No.	P1PA03607	7—E	300X/6
Rev.	DATE	DESIG.	CHECK	APPR.	DESCRIPTIO	DN			DE		Daga	92 /
DES	SIG. July 15	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	Pr		rage	152

Section 6.11.4

When installaing the Reflector, bump it in the direction of the arrow, and tighten with the tapping screw B.

•



When installaing the Reflector, the Reflector should not step upon the rubber on the lamp soecket.



- After replacing the parts, perform adjustments by referring to Section 4.1.1 "Adjustments after Maintenance Parts Replacement".
- Refer to Section 6.13.1 "Wiring and Clamping at Shield Cover" when connecting the cable at the Shield Cover.
- Refer to Section 6.13.2 "Cable Wiring at PCA Unit" when connecting the cable at the PCA Unit.

									Name	fi-6′ Maintenan	110 Ice N	lanual
03	Dec 20, 11	Yashima	a Ueda	Maki	Refer to Rev	ision Record	on page 2	2.	Drawing			
02	Aug. 2, 10	K.Okada	a A.Miyoshi	I.Fujioka	Refer to Rev	vision Record	on page 2		No.	P1PA03607	7 — E	300X/6
Rev.	DATE	DESIG.	CHECK	APPR.	DESCRIPTIO	DN			DE		Dogo	93 /
DES	SIG. July 1	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	РГ		Page	/152

6.11.5 US Sensor F

Refer to Section 4.2.23 for the part number and appearance of the US Sensor F.

<Removal>

- (1) Remove the following parts.
 - Chute ASSY (Refer to Section 6.8.1.)
 - Stacker ASSY (Refer to Section 6.8.2.)
 - PCA Unit [in the removal procedure for Control PCA/Analog PCA] (Refer to steps (2) to (4) in Section 6.7.1.)
 - Guide P ASSY (Refer to Section 6.8.3.)
 - Optical Unit [for front side scanning] (Refer to steps (2) to (9) in Section 6.11.2.)
- (2) Remove two tapping screws A (circled) that secure the US Shield Cover to remove the US Shield Cover.
- (3) Disconnect the cable from the connector (enclosed with square) and remove the US Sensor F.



<Installation>

Follow the above procedure in reverse.

NOTICE

Note the following at installation:

- After replacing the parts, perform adjustments by referring to Section 4.1.1 "Adjustments after Maintenance Parts Replacement".
- Refer to Section 6.13.1 "Wiring and Clamping at Shield Cover" when connecting the cable at the Shield Cover.
- Refer to Section 6.13.2 "Cable Wiring at PCA Unit" when connecting the cable at the PCA Unit.
- When installing the US Shield Cover, pull the US Shield Cover in the direction of the arrow and fix it with the tapping screws A in the order of ① then ②.
- Install the FG Cable so that its terminal touches the flat plate surface. (The FG Cable should not be stranded on the dowel.)



									Name	fi-6′ Maintenan	110 Ice N	lanual
03	Dec 20, 11	Yashima	Ueda	Maki	Refer to Rev	vision Record	on page 2) 	Drawing			
02	Aug. 2, 10	K.Okada	A.Miyoshi	I.Fujioka	Refer to Rev	ision Record of	on page 2		No.	P1PA03607	7—E	300X/6
Rev.	DATE	DESIG.	CHECK	APPR.	DESCRIPTIO	DN			DE		Daga	94 🖊
DES	SIG. July 15	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	F		гауе	/152

6.11.6 Motor

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

<Removal>

- (1) Remove the following parts.
 - Chute ASSY (Refer to Section 6.8.1.)
 - Stacker ASSY (Refer to Section 6.8.2.)
 - PCA Unit [in the removal procedure for Control PCA/Analog PCA] (Refer to steps (2) to (4) in Section 6.7.1.)
 - Guide P ASSY (Refer to Section 6.8.3.)
 - Optical Unit [for front side scanning] (Refer to steps (2) to (9) in Section 6.11.2.)
- (2) Loosen the adjustment screw A (screw C) from the side of the Fixed Unit to remove the Belt A.
- (3) Loosen the adjustment screw B (screw C, with plain washer), and remove the Belt B and the adjustment bracket B.



(4) Remove the E-ring that secures the Pulley to remove the Pulley.



									Name	fi-6′ Maintenan	110 Ice N	lanual
03	Dec 20, 11	Yashima	Ueda	Maki	Refer to Rev	vision Record	on page 2		Drawing		_	
02	Aug. 2, 10	K.Okada	a A.Miyoshi	I.Fujioka	Refer to Rev	vision Record	on page 2		No.	P1PA03607	7 — E	300X/6
Rev.	DATE	DESIG.	CHECK	APPR.	DESCRIPTIO	DN			DE		Daga	95 /
DE	SIG. July 1	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	РГ		Page	152

Section 6.11.6

(5) Remove a screw C (circled) that secures the Motor to remove the Motor.



<Installation>

Follow the above procedure in reverse.

- NOTICE

Note the following at installation:

- When installing the adjustment braket B, be sure to attach the plain washer with the adjustment screw B.
- After replacing the parts, perform adjustments by referring to Section 4.1.1 "Adjustments after Maintenance Parts Replacement".
- Refer to Section 6.13.1 "Wiring and Clamping at Shield Cover" when connecting the cable at the Shield Cover.
- Refer to Section 6.13.2 "Cable Wiring at PCA Unit" when connecting the cable at the PCA Unit.
- Make sure that the Optical Unit is securely latched with the two tabs on the Fixed Unit.
- Tension adjustment with a spring gauge is required for the Belt installation (tightening the adjustment screw). (Refer to Section 6.12.)
- Set the Belt outside of the Pulley, and rotate the gear a few times to check the operation after belt installation.



									Name	fi-6110 Maintenance Manual
03	Dec 20, 11	Yashima	a Ueda	Maki	Refer to Revi	ision Record	on page 2		Drawing	
02	Aug. 2, 10	K.Okada	a A.Miyoshi	I.Fujioka	Refer to Revi	sion Record	on page 2		No.	P1PA03607-B00X/6
Rev.	DATE	DESIG.	CHECK	APPR.	DESCRIPTION	N			DE	$\frac{96}{96}$
DE	SIG. July 15	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	РГ	Page /152

6.11.7 Feed Roller



Refer to Section 4.2.18 for the part number and appearance of the Feed Roller.

<Removal>

- (1) Remove the following parts.
 - Chute ASSY (Refer to Section 6.8.1.)
 - Stacker ASSY (Refer to Section 6.8.2.)
 - PCA Unit [in the removal procedure for Control PCA/Analog PCA] (Refer to steps (2) to (4) in Section 6.7.1.)
 - Guide P ASSY (Refer to Section 6.8.3.)
 - Optical Unit [for front side scanning] (Refer to steps (2) to (9) in Section 6.11.2.)
 - Inverter [for front side scanning] (Refer to steps (2) to (3) in Section 6.11.3.)
 - US Sensor F (Refer to steps (2) to (3) in Section 6.11.5.)
- (2) Unlatch two tabs (circled) at the center that secure the Roller Plate and a tab (enclosed with square) at the left of the Roller Plate. Raise the Roller Plate, and pull it out of the frame.



(3) Loosen the adjustment screw A and adjustment screw B (two screws C, circled), and remove the Belt A and Belt B.



									Name	fi-6110 Maintenance	Manual
03	Dec 20, 11	Yashima	Ueda	Maki	Refer to Rev	vision Record	on page 2		Drawing		
02	Aug. 2, 10	K.Okada	A.Miyoshi	I.Fujioka	Refer to Rev	vision Record of	on page 2		No.	P1PA03607-	B00X/6
Rev.	DATE	DESIG.	CHECK	APPR.	DESCRIPTIO	DN			DE		97
DE	SIG. July 1	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	РГ		152

Section 6.11.7

(4) Unlatch the tab on the Pulley with a flat-blade screwdriver, and pull the Pulley out of the Feed Roller shaft.



When pulling the Pulley out of the Feed Roller shaft with a flat-blade screwdriver, be careful not to damage the removed pulley or other pulleys around it.



NG

Good!

* Apply the screwdriver to the "center" of the Pulley at the front.



- * If the driver touches the "edge" of the Pulley at the front, the Pulley may be damaged.
- (5) Raise the bushing at the left side with a flat-blade screwdriver, and pull it out of the Feed Roller shaft to remove.



								Name	fi-6′ Maintenan	110 Ice N	lanual
03	Dec 20, 11	Yashima	Ueda	Maki	Refer to Revision Rec	ord on page 2	2.	Drawing			
02	Aug. 2, 10	K.Okada	A.Miyoshi	I.Fujioka	Refer to Revision Rec	ord on page 2	2.	No.	P1PA03607	7 — E	300X/6
Rev.	DATE	DESIG.	CHECK	APPR.	DESCRIPTION			DE		Dogo	98 /
DES	SIG. July 15	5,2010	K.Okada	CHECK	A.Miyoshi	APPR.	I.Fujioka	РГ		Page	152

- (6) Raise the bushing at the right side that secures the Feed roller with a flat-blade screwdriver.
- (7) Remove the Feed Roller.
- (8) Remove the bushing at the right side from the Feed Roller.



<Installation>

Follow the above procedure in reverse.

Note the following at installation:

When installing the Pulley, check that the Pulley is set in the groove on the Feed Roller. After pushing in the Pulley, try to pull it and make sure it does not come off and the Feed Roller rotates smoothly.



									Name	fi-6′ Maintenan	110 Ice N	lanual
03	Dec 20, 11	Yashima	Ueda	Maki	Refer to Rev	vision Record	on page 2	2.	Drawing			
02	Aug. 2, 10	K.Okada	A.Miyoshi	I.Fujioka	Refer to Rev	ision Record	on page 2		No.	P1PA03607	7 — E	300X/6
Rev.	DATE	DESIG.	CHECK	APPR.	DESCRIPTIO	DN					Daga	99 /
DE	SIG. July 1:	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	P		rage	152

- Tension adjustment with a spring gauge is required for the Belt installation (tightening the adjustment screw). (Refer to Section 6.12.)
- Set the Belt outside of the Pulley, and rotate the gear a few times to check the operation after belt installation.



- Refer to Section 6.13.1 "Wiring and Clamping at Shield Cover" when connecting the cable at the Shield Cover.
- Refer to Section 6.13.2 "Cable Wiring at PCA Unit" when connecting the cable at the PCA Unit.
- After replacing the parts, perform adjustments by referring to Section 4.1.1 "Adjustments after Maintenance Parts Replacement".

									Name	fi-6110 Maintenance Manual
03	Dec 20, 11	Yashima	Ueda	Maki	Refer to Rev	vision Record	on page 2		Drawing	
02	Aug. 2, 10	K.Okada	A.Miyoshi	I.Fujioka	Refer to Rev	vision Record	on page 2	-	No.	P1PA03607-B00X/6
Rev.	DATE	DESIG.	CHECK	APPR.	DESCRIPTIO	DN			DE	
DE	SIG. July 1	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	РГ	

6.11.8 Exit Roller / HK Ring

Refer to the following sections for the part number and appearance of the maintenance parts:

- Exit Roller: Section 4.2.19
- HK Ring: Section 4.2.20

<Removal>

- (1) Remove the following parts.
 - Chute ASSY (Refer to Section 6.8.1.)
 - Stacker ASSY (Refer to Section 6.8.2.)
 - PCA Unit [in the removal procedure for Control PCA/Analog PCA] (Refer to steps (2) to (4) in Section 6.7.1.)
 - Guide P ASSY (Refer to Section 6.8.3.)
 - Base Cover ASSY [in the removal procedure for Optical Unit (for front side scanning)] (Refer to step (2) in Section 6.11.2.)
 - Panel PCA (Refer to steps (2) to (4) in Section 6.10.1.)
 - Top Cover ASSY (Refer to steps (2) to (3) in Section 6.8.4.)
 - Guide A (Refer to step (2) in Section 6.8.5.)
- (2) Loosen the adjustment screw A (screw C, circled), and then remove the Belt A.



(3) Unlatch the tab on the Pulley with a flat-blade screwdriver, and pull the Pulley out of the Feed Roller shaft.



									Name	fi-6′ Maintenan	110 Ice N	lanual
03	Dec 20, 11	Yashima	u Ueda	Maki	Refer to Rev	ision Record	on page 2	2.	Drawing			
02	Aug. 2, 10	K.Okada	a A.Miyoshi	I.Fujioka	Refer to Rev	vision Record	on page 2		No.	P1PA03607	7 — E	300X/6
Rev.	DATE	DESIG.	CHECK	APPR.	DESCRIPTIO	DN					Daga	101
DE	SIG. July 15	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	РГ		Page	/152

- (4) Raise the bushings at right and left sides with a flat-blade screwdriver.
- (5) Pull the Exit Roller at right side with the bushing, and slide it in the direction of the arrow to remove.
- (6) Remove the bushings at right and left sides from the remove Exit Roller.







it in the direction of the arrow to remove.

<Replacing the HK Ring only>

(7) Remove the HK Rings from the Exit Roller.



<Installation>

Follow the above procedure in reverse.

Note the following at installation:

- When installing the Pulley, check that the Pulley is set in the groove on the Exit Roller.
- After pushing in the Pulley, try to pull it and make sure it does not come off and the Exit Roller rotates smoothly.
- Tension adjustment with a spring gauge is required for the Belt installation (tightening the screw C). (Refer to Section 6.12.)
- Set the Belt outside of the Pulley, and rotate the gear a few times to check the operation after Belt installation.



- Refer to Section 6.13.1 "Wiring and Clamping at Shield Cover" when connecting the cable at the Shield Cover.
- Refer to Section 6.13.2 "Cable Wiring at PCA Unit" when connecting the cable at the PCA Unit.
- After replacing the parts, perform adjustments by referring to Section 4.1.1 "Adjustments after Maintenance Parts Replacement".

									Name	fi-6 [⁄] Maintenar	110 Ice N	lanual
03	Dec 20, 11	Yashima	Ueda	Maki	Refer to Rev	ision Record	on page 2	-	Drawing			
02	Aug. 2, 10	K.Okada	A.Miyoshi	I.Fujioka	Refer to Rev	ision Record	on page 2		No.	P1PA03607	7 — E	300X/6
Rev.	DATE	DESIG.	CHECK	APPR.	DESCRIPTIO	N			DE		Daga	102
DE	SIG. July 1	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	РГ		гауе	/152

Section 6.12

6.12 Belt Tension Adjustment

There are two tools for belt tension adjustment; with a spring gauge and the adjustment spring 2. The same result can be obtained by either method.

6.12.1 Adjustment with a Spring Gauge

If any of the following parts is removed, belt tension adjustment is required after installation. Perform adjustment by referring to the procedure below.

- Parts for which belt needs to be removed:
 - Feed Roller: Refer to Section 6.11.7
 - Exit Roller: Refer to Section 6.11.8
 - HK Ring: Refer to Section 6.11.8
 - Motor: Refer to Section 6.11.6



									Name	fi-6′ Maintenan	110 Ice N	lanual
03	Dec 20, 11	Yashima	Ueda	Maki	Refer to Rev	vision Record	on page 2		Drawing			
02	Aug. 2, 10	K.Okada	a A.Miyoshi	I.Fujioka	Refer to Rev	vision Record	on page 2		No.	P1PA03607	7 — E	300X/6
Rev.	DATE	DESIG.	CHECK	APPR.	DESCRIPTIO	DN					Daga	103 /
DE	SIG. July 1	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	РГ		Page	/152

6.12.1.1 Tension Adjustment of Belt A (with Spring Gauge)

Perform the tension adjustment of the "Belt A" in the procedure below:

<<Adjustment Procedure>>

Pushing the spring gauge against the Adjustment bracket A (bracket part) with 750±50g, fix it with the adjustment screw A (screw C).



<<Confirmation Procedure>>

Check that the following value is obtained when pushing the Belt in the direction of the arrow (F1).

Follow the adjustment above again if the values are different.



									Name	fi-6′ Maintenan	110 Ice N	lanual
03	Dec 20, 1	Yashima	Ueda	Maki	Refer to Rev	vision Record	on page 2	·	Drawing			
02	Aug. 2, 10	K.Okada	A.Miyoshi	I.Fujioka	Refer to Rev	ision Record	on page 2		No.	P1PA03607	7 — E	300X/6
Rev.	DATE	DESIG.	CHECK	APPR.	DESCRIPTIO	DN					Daga	104 /
DE	SIG. July	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	P		rage	152

6.12.1.2 Tension Adjustment of Belt B (with Spring Gauge)

Perform the tension adjustment of the "Belt B" in the procedure below:

<<Adjustment Procedure>>

Pushing the spring gauge against the Adjustment bracket B (bracket part) with 150 ± 50 g, fix it with the adjustment screw B (screw C).



<<Confirmation Procedure>>

Check that the following value is obtained when pushing the Belt in the direction of the arrow (F2).

Follow the adjustment above again if the values are different.



									Name	fi-6′ Maintenan	110 Ice N	lanual
03	Dec 20, 1	l Yashim	a Ueda	Maki	Refer to Rev	ision Record	on page 2) 	Drawing			
02	Aug. 2, 10	K.Okad	a A.Miyoshi	I.Fujioka	Refer to Rev	vision Record	on page 2		No.	P1PA03607	7 — E	300X/6
Rev.	DATE	DESIG.	CHECK	APPR.	DESCRIPTIO	DN			DE		Daga	105
DE	SIG. July	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	РГ		Page	152

6.12.2 Adjustment with the Adjustment Spring 2

6.12.2.1 Tension Adjustment of Belt A (with Adjustment spring 2)

Perform the tension adjustment of the "Belt A" in the procedure below:

<<Adjustment Procedure>>

Hook the Adjustment Spring 2 on the spring hook for the adjustment bracket A and the spring fulcrum point, and fix it with the adjustment screw A (screw C).



6.12.2.2 Tension Adjustment of Belt B (with Adjustment spring 2)

Perform the tension adjustment of the "Belt A" in the procedure below:

<<Adjustment Procedure>>

Hook the Adjustment Spring 2 on the spring hook for the adjustment bracket A and the spring fulcrum point, and fix it with the adjustment screw A.



										Name	fi-6′ Maintenan	110 Ice N	lanual
03	Dec 20), 11	Yashima	a Ueda	Maki	Refer to Rev	vision Record	on page 2	-	Drawing			
02	Aug. 2	2, 10	K.Okada	a A.Miyoshi	I.Fujioka	Refer to Rev	vision Record	on page 2		No.	P1PA03607	7 — E	300X/6
Rev.	DAT	ΓЕ	DESIG.	CHECK	APPR.	DESCRIPTIO	DN			DE		Daga	106
DES	SIG. Ju	uly 15	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka			rage	152

6.13 Notes on Installation of Cables and Clamps

6.13.1 Wiring and Clamping at Shield Cover Section

Wrong cable connetion or clamping may not satisfy radio wave standard at installing the Shield Cover. Follow the wiring and clamping procedure below at installation.

When	installing the	Shield Cover	route the following	six cables	through the t	five holes and	follow the wirir	o procedures	helow.
w nen	instanting the	Silleiu Cover,	Toute the following	s six cables	unougn me	live noies and	tonow the with	ig procedures	DEIOW.

No.	Cable name	Refer to	Cable connection route	Remarks
1	US RV Cable	(1)	Sensor RV ⇔ Analog PCA	The FG Cable is connected to the Shield Cover
2	Motor Cable	(2)	Motor ⇔ Analog PCA	
3	CCD Cable	(3)	Optical Unit ⇔ Analog PCA	
4	FG Cable F2	(4)	US Shield Cover ⇔ Shield Cover	
5	US FIX Cable	(5)	US Sensor F ⇔ Analog PCA	
6	SE Cable F2	(5)	Inverter ⇔ Analog PCA	



										Name	fi-6110 Maintenance Manual		
03	Dec	20, 11	Yashima	a Ueda	Maki	Refer to Revision Record on page 2.				Drawing			
02	Aug	. 2, 10	K.Okada	a A.Miyoshi	I.Fujioka	Refer to Revision Record on page 2.				No.	P1PA03607-B00X/6		
Rev.	DA	ΛTΕ	DESIG.	CHECK	APPR.	DESCRIPTION							
DE	SIG.	July 15	5,2010	K.Okada	CHECK	K A.Miyoshi APPR. I.Fujioka		Pr					

- (1) Wiring and clamping the [US RV Cable]
- Route the US RV Cable along the goove of the Fixed frame.



- (2) Wiring in the Shield Cover
- Refer to the ohoto below how to wire the cables in the Shield Cover.
- Clamp the FG Cable of the US RV Cable, and fix it with the tapping screw B.



									Name	fi-6′ Maintenan	fi-6110 Itenance Manual		
03	Dec 20, 1	Yashima	a Ueda	Maki	Refer to Revision Record on page 2.				Drawing				
02	Aug. 2, 10	K.Okada	a A.Miyoshi	I.Fujioka	Refer to Revision Record on page 2.				No.	P1PA03607	7 — E	300X/6	
Rev.	DATE	DESIG.	CHECK	APPR.	DESCRIPTION				DE		Daga	108 /	
DES	SIG. July 1	5,2010	K.Okada	CHECK	A.Miyoshi	A.Miyoshi APPR. I.Fujioka		I.Fujioka			/152		
6.13.2 Cable Wiring at PCA Unit

Wrong cable connetion or clamping may not satisfy radio wave standard at installing the PCA Unit. Follow the wiring and clamping procedure below at installation.

 PCA Unit installation (Control PCA/Analog PCA) Refer to the figure below for the cable connection configuration.



									Name	fi-6′ Maintenar	110 Ice N	lanual
03	Dec 20, 11	Yashim	a Ueda	Maki	Refer to Rev	efer to Revision Record on page 2.						
02	Aug. 2, 10	K.Okad	a A.Miyoshi	I.Fujioka	Refer to Rev	Refer to Revision Record on page 2.				P1PA03607	7 — E	300X/6
Rev.	DATE	DESIG.	CHECK	APPR.	DESCRIPTIO	ESCRIPTION					Daga	109
DE	SIG. July 1	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	РГ		Page	/152

Chapter 7 Adjustment/Settings

7.1 Maintenance Mode

This chapter describes how to check the operation of each part and adjust them in the Maintenance Mode

- Note: <u>Performing main scan/Sub-scan magnification adjustment or offset adjustment automatically clears</u> <u>"magnification setting" or "offset setting" that has been set by users.</u>
 - * Refer to Section 8.5.3.2 "Device Info" for the user settings.

7.1.1 Activating the Maintenance Mode and Mode Types

<<How to activate the Maintenance mode>>

- (1) Open the ADF and press the [Power] button while holding down the [Scan/Stop] button to turn ON the power.
- (2) The power is supplied to the scanner and initial processing starts. (Screen: T01)

Screen	Operation	Function No. Display	Scanner status	Remarks
T01	ADF opens. + Keep pressing [Scan/Stop] button + Press [Power] button to turn on the power	0 (ON)	Initial processing in Maintenance mode	

(3) Make sure that (Screen :T02) appears on the Function Number Display, let go of the [Scan/Stop] button and close the ADF. (Keep pressing the [Scan/Stop] button until the screen T02 appears.)

Screen	Operation	Function No. Display	Scanner status	Remarks
T02	Check thatappears. + Let go of [Scan/Stop] button and close the ADF.	(ON)	Maintenance mode #1 selected	Interface with host is disabled while Maintenance Mode is active.

									Name	fi-6 Maintenar	110 nce N	lanual
03	Dec 20, 11	Yashima	Ueda	Maki	Refer to Rev	vision Record	on page 2	*•	Drawing			
02	Aug. 2, 10	K.Okada	A.Miyoshi	I.Fujioka	Refer to Rev	efer to Revision Record on page 2.				P1PA0360	7—E	300X/6
Rev	DATE.	DESIG.	CHECK	APPR.	DESCRIPTIC	DESCRIPTION					Dogo	110
DF	SIG. July 1	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	РГ		rage	/152

<<How to change the Maintenance mode>>

To change the Maintenance modes ($\#1 \sim \#7$), press the [Function] button on the Maintenance Mode screen [T02]. Pressing the [Function] button changes the display as follows.

	Mada	Operator	Panel	Mode name	Dofor
Screen	No.	Function No.	Status	Description	to
		Display	transition		
Т03	#1	(ON)	•	Paper feeding / Sensor test Performs the paper feeding test in the selected resolution and checks each sensor operation.	7.1.2
T04	#2	(ON)	€	Main scan/Sub-scan magnification adjustment Automatically calculates the correction value so that the main/sub-scanning magnification value becomes within standards and performs adjustment. If any of the related parts are replaced, adjustment is required. (Refer to Section 4.1.1)	7.1.3
T05	#3	(ON)	←	Offset adjustment Automatically calculates the correction value so that the main/sub-scanning offset value becomes within standards and performs adjustment. If any of the related parts are replaced, adjustment is required. (Refer to Section 4.1.1)	7.1.4
T06	#4	(ON)		White level adjustment Automatically calculates the correction value so that the white level correction value (white valance) becomes within standards and perform adjustment. If any of the related parts are replaced, adjustments is required.	7.1.5
T07	#5	ON)		Consumable counter display and reset Displays and resets the consumable counter.	7.1.6
Т08	#6			Miscellaneous information display The following scanner information can be checked in this mode: • Firmware version • Starting date of the scanner • Accumulated number of paper scanned	7.1.7
Т09	#7	B		EEPROM data restore Restores the EEPROM data that have been saved before the Operator Panel replacement.	7.1.8
T10	#8			(Reserved)	

<<How to start the Maintenance mode>>

Select a Maintenance mode and press the [Scan/Stop] button. The scanner activates the selected Maintenance mode.

										Name	fi-611 Maintenance	0 e Manual
03	Dec	20,11	Yashima	Ueda	Maki	Refer to Rev	ision Record	on page 2		Drawing		
02	Auş	g. 2, 10	K.Okada	A.Miyoshi	I.Fujioka	Refer to Rev	efer to Revision Record on page 2.				P1PA03607-	-B00X/6
Rev.	D	ATE	DESIG.	CHECK	APPR.	DESCRIPTIO	DN			DE		111
DE	SIG.	July 15	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	ГГ		ige /152

7.1.2 Maintenance Mode #1: Paper feeding and Sensor test

This mode tests the scanning operation at the specified resolution and also checks the sensor status (ON/OFF) for each of the ADF sensors.

[How to operate]

- Select the Maintenance mode #1 (screen: T03) and press the [Scan/Stop] button. The item number is displayed on the Function No. Display.
- (2) Pressing the [Function] button updates the number. Select the number corresponding to the operation mode you want to test.

[Item No.] and corresponding scanning speed (resolutions)/test mode is as shown in the table below.

Screen	Function No. Display [Item No.]	Scani	ning speed/test mode	Remarks
T15	0	Paper	Monochrome 600 dpi	Default when selecting the test mode
	1	Feeding	Monochrome 300 dpi	
	2		Monochrome 240 dpi	
	3		Monochrome 200 dpi	
	4		Monochrome 100 dpi	
	5		Monochrome 150 dpi	
	6		Monochrome 400 dpi	
	7	Sensor tes	t	

[Performing paper feeding test (Item No.: 0 to 6)]

Select an item number, place the paper on the ADF and press the [Scan/Stop] button. Paper feeding test will start. Check the feeding operation.

Note: If documents are placed on the ADF Paper Chute (Empty sensor: ON), paper feeding test will start.

Reference During paper feeding operation, operation stops after all documents are fed and the test mode selection screen (Screen: T03) appears.

[Performing sensor test (Item No.: 7)]

Select the item number: 7, and press the [Scan/Stop] button. Sensor test will star

If documents are placed and the [Function] button is pressed, you can check the sensor status during feeding (motor rotating). Check each sensor status.

Sensor status and Function Number Display

Screen	Function No. Display Check LED	Lighting position	Description	Status
		1	[Reserved]	—
	Check <u>1</u>	2	Empty sensor status	ON (paper exists) - Lights on
		3	[Reserved]	
т16	²	4	Top sensor status	ON (paper exists) - Lights on
110		5	ADF open sensor status	OFF (cover open) – Lights on
	5 7	6	[Reserved]	—
		7	Multifeed sensor status	ON (paper exists) – Lights on
	6	8	[Reserved]	

[How to end]

Press the [Send to] button. The test stops and the test mode selection screen (T03) appears. The test also terminates when no paper remains on the ADF paper chute.

									Name	fi-6110 Maintenance Mar	nual
03	Dec 20, 1	1 Yashin	na Ueda	Maki	Refer to Rev	vision Record	on page 2	2.	Drawing		
02	Aug. 2, 1	0 K.Oka	ta A.Miyoshi	I.Fujioka	Refer to Rev	efer to Revision Record on page 2.				P1PA03607-B0	0X/6
Rev.	DATE	DESIC	G. CHECK	APPR.	DESCRIPTIO	DN			DE		112
DE	SIG. July	15,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	Pr		152

7.1.3 Maintenance Mode #2: Main/Sub-scanning magnification adjustment

In this mode, the magnification correction values for sub-scanning (vertical) are automatically calculated to satisfy the specification.

- Note: <u>Performing main scan/Sub-scan magnification adjustment or offset adjustment automatically clears</u> <u>"magnification setting" or "offset setting" that has been set by users.</u>
 - * Refer to Section 8.5.3.2 "Device Info" for the user settings.

[How to operate]

- Select the Maintenance mode #2 (screen: T04) and press the [Scan/Stop] button. The item number is displayed on the Function No. Display.
- (2) Pressing the [Function] button updates the number. Select the number corresponding to the operation mode you want to adjust.

Screen	Function No. Display [Item No.]	Adjustment mode (Adjusted position)	Required test chart	Remarks
	0	ADF sub-scan magnification adjustment		Default at test mode selected
T20	1	ADF front side main scan magnification adjustment	(1)	
	2	ADF backside main scan magnification adjustment		

(3) Place the ADJUST-CHART-A4 [PA93010-Y790] (A4 ppc paper is substitutable) on the ADF paper chute, and press the [Scan/Stop] button. Adjustment operation will start.

(4) If the adjustment has been performed successfully, "o" (screen: T21) appears on the Function Number Display. Reference If the adjustment has not performed properly, "c" (screen: T25) appears on the Function Number Display.

(5) If the adjustment has been performed successfully, press the [Function] button to write the result into EEPROM.
 [Function] button: Asks whether the adjustment result is written into EEPROM (screen: T22)
 [Send to] button: Cancels the process and returns to the maintenance mode selection screen (screen: T04)

(6) Press the [Scan/Stop] + [Function] buttons to write the data into EEPROM. (The screen is changed to [T23]).

(7) If data has been written into EEPROM successfully, "o" (screen: T24) appears on the Function Number Display. If the data has not been written into EEPROM, "c" (screen: T25) appears on the Function Number Display.

Screen	Operation	Function No. Display	Status	Remarks
T21	Place the test chart and press the [Scan/Stop] button to start adjustment.		Adjustment completed successfully	Displays "o" The selected [Item No.] blinks during adjustment.
T22	[Function] button: Asks whether to write into EEPROM [Send to] button: Cancels the process.	(Blink)	Inquiry about writing into EEPROM	Blinks "o"(lower). Interval is 1.0 second. (Time between light on and off: 0.5 second)
T23	[Scan/Stop] button + [Function] button	(ON)	Writing into EEPROM	Displays "L" * Button operation is disabled.
T24	Check that the result is written into EEPROM successfully, and press the [Send to] button.	(ON)	Writing into EEPROM completed successfully	Displays "o"(upper)
T25	[Function] button: Displays error information. [Send to] button: Returns to test mode selection screen. Or restart the adjustment from the beginning.	(ON)	Abnormal end or failed to write into EEPROM	Displays "c" Refer to [screen: T26] for details of the error information when the [Function] button is pressed.

[How to end]

Press the [Send to] button. The adjustment mode selection screen (T20) appears.

									Name	fi-6 Maintenar	110 nce N	lanual
03	Dec 20, 11	Yashima	Ueda	Maki	Refer to Rev	ision Record	on page 2		Drawing			
02	Aug. 2, 10	K.Okada	A.Miyoshi	I.Fujioka	Refer to Rev	Refer to Revision Record on page 2.				P1PA0360	7 — E	300X/6
Rev	DATE	DESIG.	CHECK	APPR.	DESCRIPTIC	DESCRIPTION					Dogo	113
DE	SIG. July 1:	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	P		гаge	/152

Section 7.1.3

[Error Information Details at Main/Sub-scan Magnification Adjustment]

Screen	Function No. Display	Lighting position	Description	Status	Adjustment mode on which the error may occur [Item No.]			
					0	1	2	
		1	Cannot detect the leading edge.	ON	Y			
	Check 1	2	Cannot detect the left edge.	ON		Y	Y	
		3	[Reserved]	—		_		
	^o 2 4	4	Cannot detect the right edge.	ON		Y	Y	
T26	3	5	Excessive skew A	ON		Y	Y	
	5 5 7	6	Cannot detect the trailing edge.	ON	Y			
		7	Excessive skew B	ON		Y	Y	
	6	8	[Reserved]	_				

Skew A and B are calculated by the following expression.

Skew A = a - b

Skew B = c - d



[Test Chart 1]

Use the test sheet for main/sub-scan magnification adjustment that meets the following specification.

Chart name	Part number	Part name	Remarks		
Test chart 1	_	—	A4-size paper		



										Name	fi-6′ Maintenan	110 Ice N	lanual
03	Dec 2	20, 11	Yashima	Ueda	Maki	Refer to Rev	ision Record	on page 2		Drawing			
02	Aug.	. 2, 10	K.Okada	A.Miyoshi	I.Fujioka	Refer to Rev	ision Record	on page 2		No.	P1PA03607	7—E	300X/6
Rev	DA.	ΛTΕ	DESIG.	CHECK	APPR.	DESCRIPTIO	N			DE		Daga	114 /
DF	SIG.	July 15	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	РГ		Page	152

7.1.4 Maintenance Mode #3: Offset adjustment

In this mode, the offset correction values for main/sub-scanning are automatically calculated to satisfy the specification.

Note: Be sure to perform magnification adjustment before offset adjustment.

- <u>Performing main scan/Sub-scan magnification adjustment or offset adjustment automatically clears</u> <u>"magnification setting" or "offset setting" that has been set by users.</u>
 - * Refer to Section 8.5.3.2 "Device Info" for the user settings.

[How to operate]

- Select the Maintenance mode #3 (screen: T05) and press the [Scan/Stop] button. The item number is displayed on the Function No. Display.
- (2) Pressing the [Function] button updates the number. Select the number corresponding to the operation mode you want to adjust.

Screen	Function No. Display [Item No.]	Adjustment mode (Adjusted position)	Required test chart	Remarks
T20	0	ADF front	(1)	Default at test mode selected
130	1	ADF back	(1)	

- (3) Place ADJUST-CHART-A4 [PA93010-Y790] (A4 ppc paper is substitutable) on the ADF paper chute, and press the [Scan/Stop] button. Adjustment operation will start.
- (4) If the adjustment has been performed successfully, "o" (screen: T31) appears on the Function Number Display. Reference If the adjustment has not performed properly, "c" (screen: T35) appears on the Function Number Display.
- (5) If the adjustment has been performed successfully, press the [Function] button to write the result into EEPROM. [Function] button: Asks whether the adjustment result is written into EEPROM. (screen: T32) [Send to] button: Cancels the process and returns to the maintenance mode selection screen. (screen: T05)
- (6) Press the [Scan/Stop] + [Function] buttons to write the data into EEPROM. (The screen is changed to [T33]).
- (7) If data has been written into EEPROM successfully, "o" (screen: T34) appears on the Function Number Display.

If the data has not been written into EEPROM, "c" (screen: T36) appears on the Function Number Display.

Screen	Operation	Function No. Display	Status	Remarks
T31	Place the test chart and press the [Scan/Stop] button to start adjustment.		Adjustment completed successfully	Displays "o" The selected [Item No.] blinks during adjustment.
T32	[Function] button: Asks whether to write into EEPROM [Send to] button: Cancels the process.	(Blink)	Inquiry about writing into EEPROM	Blinks "o"(lower). Interval is 1.0 second. (Time between light on and off: 0.5 second)
Т33	[Scan/Stop] button + [Function] button	(ON)	Writing into EEPROM	Displays "L" * Button operation is disabled.
T34	Check that the result is written into EEPROM successfully, and press the [Send to] button.	(ON)	Writing into EEPROM completed successfully	Displays "o"(upper)
T35	[Function] button: Displays error information. [Send to] button: Returns to test mode selection screen	(ON)	Abnormal end	Displays "c" Refer to [screen: T37] for details of the error information when the [Function] button is pressed.
T36	Restart the adjustment from the beginning.		Failed to write into EEPROM	Displays "c".

[How to end]

Press the [Send to] button. The adjustment mode selection screen (T30) appears.

									Name	fi-6′ Maintenar	110 Ice N	lanual
03	Dec 20, 11	Yashima	Ueda	Maki	Refer to Rev	vision Record	on page 2	2.	Drawing			
02	Aug. 2, 10	K.Okada	a A.Miyoshi	I.Fujioka	Refer to Rev	Refer to Revision Record on page 2.			No.	P1PA03607	7 — E	300X/6
Rev.	DATE	DESIG.	CHECK	APPR.	DESCRIPTIO	DN					Dege	115
DE	SIG. July 1:	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	Pr		гаде	/152

[Error Information Details at Offset Adjustment]

Screen	Function No. Display [Item No.]	Lighting position	Description	Status	Adjustment n the error [Item	node on which may occur No.]
					0	1
	Check	1	Cannot detect the leading edge (black detection failed)	ON	Y	Y
	8 2 4	2	Cannot detect the left edge (black detection failed)	ON	Y	Y
	5 3 7	3	Cannot detect the leading edge (white detection failed)	ON	—	_
137	· · · · · · · · · · · · · · · · · · ·	4	Excessive skew A	ON	Y	Y
	6	5	Cannot detect the left edge (white detection failed)	ON	Y	Y
		6	[Reserved]		—	_
		7	Excessive skew B	ON	Y	Y
		8	[Reserved]	_		_

Skew A and B are calculated by the following expression.

Skew A = a - b

Skew B = c - d



[Test Chart 1]

.

Use the test sheet for	Use the test sheet for offset adjustment that meets the following specification.										
Chart name Part number Part name Remarks											
Test chart 1 — A4-size paper											



										Name	fi-6110 Maintenance Manual
03	Dec 2	20, 11	Yashima	a Ueda	Maki	Refer to Rev	vision Record	on page 2		Drawing	
02	Aug. 2	2,10	K.Okada	a A.Miyoshi	I.Fujioka	Refer to Rev	vision Record	on page 2		No.	P1PA03607-B00X/6
Rev.	DA	ΤE	DESIG.	CHECK	APPR.	DESCRIPTIO	DN				
DES	SIG. J	July 15	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	РГ	

7.1.5 Maintenance Mode #4: White level adjustment

In this mode, the white level correction value is automatically calculated to satisfy the specification.

[How to operate]

- Select the Maintenance mode #4 (screen: T06) and press the [Scan/Stop] button. The item number is displayed on the Function No. Display.
- (2) Pressing the [Function] button updates the number. Select the number corresponding to the operation mode you want to adjust.

Screen	Function No. Display [Item No.]	Adjustment mode (Adjusted position)	Required test chart	Remarks
T40	0	ADF front	(2)	Default at test mode selected
140	1	ADF back	(2)	

(3) Place the TEST CHART (W) [PA03277-Y123] (white art paper) on the ADF paper chute, and press the [Scan/Stop] button. Adjustment operation will start.

(4) If the adjustment has been performed successfully, "o" (screen: T41) appears on the Function Number Display. Reference If the adjustment has not performed properly, "c" (screen: T45) appears on the Function Number Display.

- (5) If the adjustment has been performed successfully, press the [Function] button to write the result into EEPROM. [Function] button: Asks whether the adjustment result is written into EEPROM. (screen: T42) [Send to] button: Cancels the process and returns to the maintenance mode selection screen. (screen: T06)
- (6) Press the [Scan/Stop] + [Function] buttons to write the data into EEPROM. (The screen is changed to [T43]).
- (7) If data has been written into EEPROM successfully, "o" (screen: T44) appears on the Function Number Display. If the data has not been written into EEPROM, "c" (screen: T46) appears on the Function Number Display.

Screen	Operation	Function No. Display	Status	Remarks
T41	Place the test chart and press the [Scan/Stop] button to start adjustment.		Adjustment completed successfully	Displays "o" The selected [Item No.] blinks during adjustment.
T42	[Function] button: Asks whether to write into EEPROM [Send to] button: Cancels the process.	(Blink)	Inquiry about writing into EEPROM	Blinks "o"(lower). Interval is 1.0 second. (Time between light on and off: 0.5 second)
T43	[Scan/Stop] button + [Function] button	(ON)	Writing into EEPROM	Displays "L" * Button operation is disabled.
T44	Check that the result is written into EEPROM successfully, and press the [Send to] button.	(ON)	Writing into EEPROM completed successfully	Displays "o"(upper)
T45	[Function] button: Displays error information. [Send to] button: Returns to test mode selection screen	(ON)	Abnormal end	Displays "c" Refer to [screen: T47] for details of the error information when the [Function] button is pressed.
T46	Restart the adjustment from the beginning.	(ON)	Failed to write into EEPROM	Displays "c".

[How to end]

Press the [Send to] button. The adjustment mode selection screen (T40) appears.

										Name	fi-6110 Maintenance Manual
03	Dec 20,	11 Yas	hima	Ueda	Maki	Refer to Rev	ision Record	on page 2	·	Drawing	
02	Aug. 2,	10 K.O)kada	A.Miyoshi	I.Fujioka	Refer to Rev	vision Record	on page 2		No.	P1PA03607-B00X/6
Rev.	DAT	E DE	SIG.	CHECK	APPR.	DESCRIPTIO	DN			DE	
DE	SIG. Jul	y 15, 201	0	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	Pr	

[Error Information Details at White Level Adjustment]

Screen	Function No. Display [Item No.]	Lighting position	Description	Status	Adjustment mode on which the error may occur [Item No.]		
					0	1	
		1	Media error	ON	Y	Y	
	Check 1	2	No paper	ON	Y	Y	
		3	[Reserved]		_	_	
	° 2 4	4	[Reserved]	_	—	—	
T47	_ 3 _	5	[Reserved]			—	
	5 7	6	[Reserved]	_	—	—	
	6	7	[Reserved]				
	0	8	[Reserved]				

[Test Chart 2] Use the test shee

et for white level adjustment that meets the following specification

Use the test sheet for	white level adjustmen	it that meets the following spe	ecification.
Chart name	Part number	Part name	Remarks
Test chart 2	PA03277-Y123	TEST CHART (W)	White reference sheet
		215mm White (art paper)	297mm

									Name	fi-61 Maintenan	10 ce N	lanual
03	Dec 20, 11	Yashima	Ueda	Maki	Refer to Rev	vision Record	on page 2	-	Drawing			
02	Aug. 2, 10	K.Okada	A.Miyoshi	I.Fujioka	Refer to Rev	ision Record	on page 2		No.	P1PA03607	́ — Е	300X/6
Rev.	DATE	DESIG.	CHECK	APPR.	DESCRIPTIC	DN			DE		Daga	118
DE	SIG. July 1:	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	РГ		Page	152

7.1.6 Maintenance Mode #5: Consumables counter display and Reset

In this mode, the following consumable counters can be displayed and reset:

- Pick Roller counter
- Pad ASSY counter

[How to operate]

- (1) Select the Maintenance mode #5 (screen: T07) and press the [Scan/Stop] button. The item number is displayed on the Function No. Display.
- (2) Pressing the [Function] button updates the number. Select the number corresponding to the operation mode you want to display.

Screen	Function No. Display [Item No.]	Displayed Counter	Remarks
Т50	0	Pick Roller	Default at test mode selected
150	1	Pad ASSY	

(3) Select an [Item No.] and press the [Scan/Stop] button. The current counter value is displayed as described below.

Screen	Counter	How Numbers are Displayed on Function Number Display
T51	Pick Roller	The counter is displayed in 8 digits in total, 1 number at a time (1 blink), from left digit to right digit. (If the counter has not reached 8 digits yet, 0 is added to blank digits.) The symbol "-" is displayed before the first number, indicating the counter display begins. The counter displays "0" until it reaches 500, and increases in increments of 10 after 500.
	Pad ASSY	eg. When the counter is "16,245", "-00016240" is displayed in the following order: "-" \rightarrow "0" \rightarrow "0" \rightarrow "0" \rightarrow "1" \rightarrow "6" \rightarrow "2" \rightarrow "4" \rightarrow "0" (Switching interval is 0.5 second.)

- (4) If you press the [Function] button while the counter is displaying the number, you can proceed to reset the counter.
 [Function] button: Asks whether to reset the counter (counter "0" is written into EEPROM). (screen: T52)
 [Send to] button: Cancels the process and returns to the maintenance mode selection screen. (screen: T07)
- (5) Press the [Scan/Stop] + [Function] buttons to write the data into EEPROM. (The screen is changed to [T53]).
- (6) If data has been written into EEPROM successfully, "o" (screen: T54) appears on the Function Number Display. If the data has not been written into EEPROM, "c" (screen: T55) appears on the Function Number Display.

Screen	Operation	Function No. Display	Status	Remarks			
T52	[Function] button: Asks whether to write into EEPROM [Send to] button: Cancels the process.	(Blink)	Inquiry about writing into EEPROM	Blinks "o"(lower). Interval is 1.0 second. (Time between light on and off: 0.5 second)			
Т53	[Scan/Stop] button + [Function] button	(ON)	Writing into EEPROM	Displays "L" * Button operation is disabled.			
T54	Check that the result is written into EEPROM successfully, and press the [Send to] button.	(ON)	Writing into EEPROM completed successfully	Displays "o"(upper)			
Т55	Restart the counter reset procedure from the beginning.		Failed to write into EEPROM	Displays "c".			

[How to end]

Press the [Send to] button. The adjustment mode selection screen (T50) appears.

									Name	fi-6110 Maintenance Manual			
03	Dec 20, 11	Yashima	Ueda	Maki	Refer to Revision	efer to Revision Record on page 2. Drawing							
02	Aug. 2, 10	K.Okada	A.Miyoshi	I.Fujioka	Refer to Revision	n Record o	on page 2		No.	P1PA03607	7—E	300X/6	
Rev.	DATE	DESIG.	CHECK	APPR.	DESCRIPTION							119	
DE	SIG. July 1:	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	Pr		Page	152	

Section 7.1.7

7.1.7 Maintenance Mode #6: Miscellaneous information display

In this mode, the following information is displayed:

- Firmware version number •
- Starting date of the scanner
- The accumulated number that have been scanned by the ADF

[How to operate]

•

- (1) Select the Maintenance mode #6 (screen: T08) and press the [Scan/Stop] button. The item number is displayed on the Function No. Display.
- (2) Pressing the [Function] button updates the number. Select the number corresponding to the operation mode you want to display.

Screen	een No. Display Displayed Counter [Item No.]		Remarks
	0	Firmware version	Default at test mode selected
T60	1	Starting date of the scanner	
	2	The accumulated number of paper scanned by the ADF	

(3) Select an [Item No.] and press the [Scan/Stop] button. The current counter value is displayed as described below. Refer to the table below (screen: T61) for how to display the numbers.

Screen	Item	How Numbers are Displayed on Function Number Display					
	Firmware version	 The counter is displayed in 4 digits in total, 1 number at a time (1 blink), from left digit to right digit. "-" is displayed before the first number, indicating the counter display begins. * Alphabets are replaced with two-digit number. A to Z corresponds to 01 to 26. eg. If the firmware version is "0A00" "-" → "0" → "0" → "1" → "0" → "0" 					
		"A" is converted to "01" (Switching interval is 0.5 second.)					
T61	Starting date of the scanner	Starting date of the scanner is displayed in 6 digits; 2 digits for "Year (Christian calendar)", 2 digits for "Month", and 2 digits for "Date". "-" is displayed before the first number, indicating the counter display begins. You cannot reset the date. eg. When the starting date is January 31st, 2010, "100131" is displayed in the following order: "-" \rightarrow "1" \rightarrow "0" \rightarrow "0" \rightarrow "1" \rightarrow "3" \rightarrow "1"					
		(Switching interval is 0.5 second.)					
	The accumulated number of paper scanned by the ADF	The accumulated number of scanned by the ADF is displayed in 8 digits in total, 1 number at a time (1 blink), from left digit to right digit. (If the counter has not reached 8 digits yet, 0 is added to blank digits.) The symbol "-" is displayed before the first number, indicating the counter display begins. The counter displays "0" until it reaches 500, and increases in increments of 10 after 500. eg. When the accumulated number is "16,250", "00016250" is displayed in the following order: "." \rightarrow "0" \rightarrow "0" \rightarrow "0" \rightarrow "1" \rightarrow "6" \rightarrow "2" \rightarrow "5" \rightarrow "0"					

[How to end]

Press the [Send to] button. The adjustment mode selection screen (T60) appears.

									Name	fi-6110 Maintenance Manual			
03	Dec 20, 11	Yashima	a Ueda	Maki	Refer to Rev	ision Record	on page 2		Drawing				
02	Aug. 2, 10	K.Okada	a A.Miyoshi	I.Fujioka	Refer to Rev	vision Record	on page 2		No.	P1PA03607-	-B00X/6		
Rev.	DATE	DESIG.	CHECK	APPR.	DESCRIPTIO	DN			DE		120		
DE	SIG. July 1:	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	Pr	^{aye} 152			

7.1.8 Maintenance Mode #7: EEPROM data restore

When replacing the Panel PCA, the EEPROM data on the Panel PCA must be temporarily saved in the Control PCA. In this mode, the saved data is restored from the Control PCA to the Panel PCA.

[How to operate]

- Select the Maintenance mode #7
 (screen: T09) and press the [Scan/Stop] button. The saved EEPROM data restore procedure will start. (screen: T70)
- (2) Press the [Scan/Stop]+ [Function] buttons to start returning the saved EEPROM data to the Panel PCA. (screen: T71)
- (3) When the data restoration is completed successfully, "o" (screen: T72) appears on the Function Number Display.

If there is no saved data, "c" (screen: T73) appears on the Function Number Display.

Screen	Operation	Function No. Display	Status	Remarks			
Т70	[Function] button: Asks whether to restore EEPROM [Send to] button: Cancels the process.	(Blink)	Inquiry about restoring the saved EEPROM	Blinks "o"(lower). Interval is 1.0 second. (Time between light on and off: 0.5 second)			
T71	[Scan/Stop] button + [Function] button	(ON)	Restoring EEPROM	Displays "L" * Button operation is disabled.			
T72	Check that the EEPROM data is restored successfully, and press the [Send to] button.	(ON)	EEPROM restoration completed successfully	Displays "o"(upper)			
Т73	Displayed when there is no saved EEPROM data.		There is no EEPROM data	Displays "c".			

[How to end]

Press the [Send to] button. The adjustment mode selection screen (T70) appears.

							Name fi-6110 Maintenance Man					lanual	
03	Dec 2	20, 11	Yashima	Ueda	Maki	Refer to Rev	ision Record	on page 2	·-	Drawing	D1D40360	7_8	2007/6
02	Aug.	2,10	K.Okada	A.Miyoshi	І. ғијюка	Refer to Rev	ision Record	on page 2		INO.	F IF AUSUU		
Rev	DA	ΤE	DESIG.	CHECK	APPR.	DESCRIPTIC	N			DE		Dago	121
DE	SIG.	July 15, 2010 K.Okada CHECK A.Miyoshi APPR. I.Fujioka					Fr		гауе	/152			

7.2 Saving EEPROM Data

The EEPROM data on the Panel PCA can be saved to the flash memory of the Control PCA. This operation is required before replacing the Panel PCA. Since this operation is performed when the Panel PCA is malfunctioning, the following procedure is designed to save the EEPROM data without the use of the operator panel.

- 1. Do not perform this procedure unless the Panel PCA is malfunctioning.
- 2. The Panel PCA from which the data was saved to the Control PCA cannot be used again.
- 3. Make sure to have a new Panel PCA before saving the EEPROM data.
- 4. If EEPROM data cannot be saved, the device setting returns to the factory default. Explain your customer and ask to configure the device setting again. (See Notice 2.)

NOTICE

- 1. If EEPROM data is saved to the Control PCA successfully, the scanner writes the information on the Panel PCA that disables the usage of this Panel PCA. So the replacement of the Panel PCA is required. If the scanner is turned on without replacing the panel PCA, "E" and "6" are displayed alternately on the Operator panel which signifies an error.
- 2. If EEPROM data cannot be saved/restored, the unique setting will not be taken over. The device setting will return to the factory default (initial setting).

[How to save the EEPROM data onto the Control PCA]

1. Open the ADF. While pressing the Top sensor (ON) and the Empty sensor pulled up, turn on the scanner.



- 2. Let go of levers of the Top sensor and the Empty sensor.
- 3. Press the Top sensor lever longer than 1 second and let go of it. And do it once again.
- 4. Close the ADF.
- After more than 5 seconds elapse, open the ADF.
 When the EEPROM data is successfully saved, the ADF front lamp blinks 3 times. If the Function Number Display function is normal, "o" (upper) is displayed.

In case the EEPROM data is not successfully saved, the lamp does not blink. If the Function Number Display function is normal, "c" is displayed.

6. Turn off the power.

Refer to Section 7.1.8 "EEPROM data restore" to restore the data after replacing the Panel PCA.

									Name	fi-6 [.] Maintenar	110 Ice N	lanual
03	Dec 20,	1 Yashin	na Ueda	Maki	Refer to Rev	vision Record	on page 2	2.	Drawing			
02	Aug. 2,	0 K.Okac	la A.Miyoshi	I.Fujioka	Refer to Rev	vision Record	on page 2		No.	P1PA03607	7—E	300X/6
Rev.	DATI	DESIG	. CHECK	APPR.	DESCRIPTIO	DN			DE		Daga	122 /
DES	SIG. July	15,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	F I		гауе	/152

Chapter 8 Operation and Daily Maintenance

8.1 Basic Operation

8.1.1 Turning the Power ON/OFF

How to Turn the Power ON

- (1) Press the [Power] button on the scanner's operator panel.
- (2) The power is turned on, and the [Power] button lights in green.



(3) During initialization, the Function Number Display of the operator panel changes as follows: "8" \rightarrow "P" \rightarrow "0" \rightarrow "1". The scanner is ready when "1" is displayed.

How to Turn the Power OFF

- (1) Press the [Power] button on the operator panel for more than two seconds.
- (2) The power is turned off, and the [Power] button switches off.

The method by which the scanner is powered ON/OFF can be specified from one of the following:

- Press the [Power] button on the operator panel
- Unplug the power cable then plug it back in
- Have the scanner turn ON/OFF in sync with the computer's power

										Name	fi-6′ Maintenan	110 Ice N	lanual
03	Dec 20), 11	Yashima	Ueda	Maki	Refer to Rev	ision Record	on page 2	2.	Drawing			
02	Aug. 2	2, 10	K.Okada	A.Miyoshi	I.Fujioka	Refer to Rev	vision Record	on page 2		No.	P1PA03607	7 — E	300X/6
Rev.	DAT	ΓЕ	DESIG.	CHECK	APPR.	DESCRIPTIO	DN			DE		Daga	123 /
DE	SIG. Ju	uly 15	,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	РГ		Page	152

8.1.2 Opening/Closing the ADF

How to Open the ADF

- (1) Remove all documents from the ADF paper chute.
- (2) Pull the ADF release tab towards you to open the ADF.

NOTICE

Be careful not to have your fingers caught when the ADF closes.



How to Close the ADF

- Make sure that there is no foreign matter inside the ADF.
- Be careful not to have your fingers caught.

(1) Close the ADF.

(2) Push the center of the ADF until it locks in place.



										Name	fi-6110 Maintenance Manual
03	Dec	20,11	Yashima	Ueda	Maki	Refer to Rev	vision Record	on page 2	-	Drawing	
02	Aug	g. 2, 10	K.Okada	a A.Miyoshi	I.Fujioka	Refer to Rev	vision Record	on page 2		No.	P1PA03607-B00X/6
Rev.	. D.	ATE	DESIG.	CHECK	APPR.	DESCRIPTIO	DN			DE	
DE	SIG.	July 15	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka		

8.1.3 Setting Up the ADF Paper Chute (Chute ASSY)

Documents loaded in the ADF paper chute are fed into the scanner one by one.

Using the chute extension 1 and chute extension 2 as shows below will keep the documents straight and feed them smoothly.

(1) Pull out chute extension 1.



(2) Pull out chute extension 2.



										Name	fi-6′ Maintenar	110 nce N	lanual
03	Dec	20, 11	Yashima	Ueda	Maki	Refer to Rev	ision Record	on page 2	•	Drawing			
02	Aug	g. 2, 10	K.Okada	A.Miyoshi	I.Fujioka	Refer to Rev	vision Record	on page 2		No.	P1PA03607	7—E	800X/6
Rev.	DA	ΑTΕ	DESIG.	CHECK	APPR.	DESCRIPTIO	DN			DE		Daga	125
DE	SIG.	July 15	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	Pr		rage	/152

8.1.4 Loading Documents Preparation

For details about the paper size and quality required for normal operations, refer to Section 1.2 "Document Specification".

- (1) Check the documents.
 - Check if the documents to be loaded are of the same width or different widths.
 Ways to load documents differ depending on whether they are the same width or not.
 - 2 Check the number of sheets.
 - Up to 50 sheets can be loaded (with paper weight of 80 g/m² (20 lb) and thickness of the document stack under 5 mm).

NOTICE

For details, refer to Section 8.2.2 "Scanning Documents of Different Widths".

- (2) Fan the documents.
 - ① Grab a stack of documents, which should be 5 mm or less.
 - 2 Hold both ends of the documents and fan them a few times.



- ③ Rotate the documents by 90 degrees and fan them in the same manner.
- ④ Perform steps 1 to 3 for all documents.
- (5) Align the edges of the documents.

How to Load Documents

- (1) Pull out the chute extension 1 and chute extension 2 according to the length of the document.
- (2) Load the document in the ADF paper chute.Set the document with its front side (scanning side) facing the ADF paper chute.



									Name	fi-6′ Maintenan	110 Ice N	lanual
03	Dec 20, 1	1 Yashima	a Ueda	Maki	Refer to Rev	vision Record	on page 2		Drawing			
02	Aug. 2, 1) K.Okada	a A.Miyoshi	I.Fujioka	Refer to Rev	ision Record	on page 2		No.	P1PA03607	7 — E	300X/6
Rev.	DATE	DESIG.	CHECK	APPR.	DESCRIPTIC	DN			DE		Daga	126
DE	SIG. July	15,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	РГ		rage	152

- Remove all paper clips and staples. Reduce the amount of documents if a multifeed or pick error occurs.
- Make sure to keep the documents within the limit which is indicated by the line on the side of each side guide.



(3) Adjust the side guides to the width of the document.Set the side guides so that there is no space left between the side guides and the document.Otherwise, the document may be fed skewed.



- (4) Lift up the stacker and stacker extension according to the length of the document.
- (5) Start up an application for scanning and perform a scan.

									Name	fi-6′ Maintenan	110 Ice N	lanual
03	Dec 20, 11	Yashima	Ueda	Maki	Refer to Rev	vision Record	on page 2	2.	Drawing			
02	Aug. 2, 10	K.Okada	A.Miyoshi	I.Fujioka	Refer to Rev	ision Record	on page 2		No.	P1PA03607	7 — E	300X/6
Rev.	DATE	DESIG.	CHECK	APPR.	DESCRIPTIO	DN					Daga	127 /
DE	SIG. July 1.	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	P		Page	152

8.1.5 Setting up the Stacker

Documents loaded in the ADF paper chute are ejected onto the stacker one by one. Using the stacker and stacker extension as follows will keep the documents straight and stack them neatly.

(1) Pull out the stacker from the top towards you.



(2) Lift up the stacker extension.



										Name	fi-6 Maintenar	110 1ce N	lanual
03	Dec 20	20, 11	Yashima	Ueda	Maki	Refer to Rev	ision Record	on page 2	·	Drawing			
02	Aug. 2	2,10	K.Okada	A.Miyoshi	I.Fujioka	Refer to Rev	vision Record	on page 2		No.	P1PA0360	7—E	300X/6
Rev	DA	ΤE	DESIG.	CHECK	APPR.	DESCRIPTIO	DN			DE		Dogo	128
DE	SIG. J	July 15	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	F I		Faye	/152

8.1.6 How to Use the Operator Panel

8.1.6.1 Turning the Power ON/OFF

The operator panel consists of the Function Number Display, buttons, and Check LED.



No	Name	Function
(1)	Check LED	Lights in orange when an error occurs. Flashes when the ADF is open.
(2)	Function Number Display	Indicates the status of the scanner. Switches off when the scanner enters power saving mode.
(3)	[Function] Button	Switches the number $(1 \text{ to } 9/\text{C})$ assigned to the application launched by the [Send to] button.
(4)	[Send to] Button	Launches the linked application software. Clears the displayed error indication.
(5)	[Scan/Stop] Button	Launches the linked application software. Clears the displayed error indication. Cancels the scan during scanning.
(6)	[Power] Button	Turns the power ON/OFF. Lights in green when the scanner is turned on.

									Name	fi-6 [/] Maintenar	110 nce N	lanual
03	Dec 20, 1	1 Yashim	a Ueda	Maki	Refer to Rev	vision Record	on page 2	2.	Drawing			
02	Aug. 2, 1) K.Okad	a A.Miyoshi	I.Fujioka	Refer to Rev	vision Record	on page 2		No.	P1PA03607	7 — E	300X/6
Rev.	DATE	DESIG	. CHECK	APPR.	DESCRIPTIO	DN			DE		Dogo	129
DE	SIG. July	15,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	РГ		гаge	152

8.1.6.2 Indications on Function Number Display

Indications on the Function Number Display are as follows.

Display	Description
8	Displayed when the scanner has just been powered on.
Р	Processing initialization.
0	Initialization is almost complete.
1	Ready to start scanning. Indicates that the initialization was successfully completed. This state is referred to as "ready".
Function number (flash)	A function number will flash after detecting a multifeed. This indication prompts whether or not to memorize the overlap pattern.
c (flash)	Indicates that the ADF was opened when the status was ready ("1"). Note that the Check LED will also flash. To return to ready ("1") status, close the ADF by referring to Section 8 "How to Close the ADF". If the display does not return to ready ("1) after closing the ADF, turn the power off then back on.
h	Indicates that the scanner is operating in protection mode. The scanner may enter this protection mode if it is used for many hours continuously under high room temperature. Note that the interval to feed the documents becomes longer in this mode, but it is not a malfunction. (The recommended operating environment is 35°C (95°F) or less) It will return to normal as you just continue scanning.
J U	Indicates that a device error (alarm) occurred during initialization or scanning. The display will switch between either "J" or "U", and an "error number". For information about the error details, refer to Chapter 5 "Troubleshooting". The display will return to ready ("1") if the [Scan/Stop] or [Send to] button is pressed.
Display	Description
Е	Indicates that a device error (alarm) occurred during initialization or scanning. The display will switch between either "E", "H" or "L", and an "alarm" number.
L	The display will return to ready ("1") if the [Scan/Stop] or [Send to] button is pressed. When this alarm occurs, turn the power off then back on.
None	The display switches off when the scanner enters power saving mode.

										Name	fi-6 Maintena	5110 nce N	lanual
03	Dec	20,11	Yashima	Ueda	Maki	Refer to Rev	ision Record	on page 2		Drawing			
02	Aug	g. 2, 10	K.Okada	A.Miyoshi	I.Fujioka	Refer to Rev	vision Record	on page 2		No.	P1PA0360	7-E	300X/6
Rev.	. D.	ATE	DESIG.	CHECK	APPR.	DESCRIPTIO	DN			DE		Dogo	130
DE	SIG.	July 15	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	Fr		гауе	/152

8.2 ADF Scanning

8.2.1 Document Scanning

- (1) Press the [Power] button on the scanner's operator panel. (Refer to Section 8.1.1.)
- (2) Turn on the computer.
- (3) Load a document in the ADF paper chute. (Refer to Section 8.1.4.)
- (4) Set the stacker. (Refer to Section 8.1.5.)
- (5) Start up ScandAll PRO.
 - Select the [Start] menu \rightarrow [All Programs] \rightarrow [Fujitsu ScandAll PRO] \rightarrow [ScandAll PRO]
- (6) Select $[Tool] \rightarrow [Setup]$ to display the [Setup] screen.
- ⇒ The [Setup] screen appears.
 (7) Select a scanner driver to use for scanning in the [Scan] tab and click the [OK] button.
 - TWAIN driver: Select [TWAIN]
 - ISIS driver: Select [ISIS/VRS]

NOTICE

The scanner driver needs to be installed beforehand. (Refer to Section 3.2.3 "Installing the Bundled Software".)

Oevice Driver Original States and S	
Isis / VRS	
Re <u>p</u> ort Scan Result	
Do not output 🗸	
Eile Name : C:\Users\bs2\Documents\report.log	Browse
Temporary Directory	
C:\Users\bs2\AppData\Local\Temp	Browse
Initial setting for profile	
%Initial Setting%	

[ScandAll PRO setup dialog box ([Scan] tab)]

(8) Click [Scan] menu \rightarrow [Select Scanner] to display the [Select Scanner] dialog box.



									Name	fi-6110 Maintenance Manual
03	Dec 20, 11	Yashima	Ueda	Maki	Refer to Rev	vision Record	on page 2		Drawing	
02	Aug. 2, 10	K.Okada	A.Miyoshi	I.Fujioka	Refer to Rev	ision Record	on page 2		No.	P1PA03607-B00X/6
Rev.	DATE	DESIG.	CHECK	APPR.	DESCRIPTIO	DN			DE	
DE	SIG. July 1	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	РГ	

Section 8.2.1

(9) In the [Select Scanner] dialog box, select a scanner and click the [Select] button.

Select Scanner	x
Device :	Select
FUJITSU fi-6110dj	Cancel

Select Scanner	×
Device :	Select
	Cancel
1	
-	Se <u>t</u> tings

[For FUJITSU TWAIN 32]

[For ISIS]

The scanner name displayed differs depending on the scanner driver you use.

ScandAll PRO [Driver setting]	TWAIN	ISIS/VRS
Scanner driver	FUJITSU TWAIN32	FUJITSU ISIS
Displayed scanner name (device)	FUJITSU fi-6110dj	Fujitsu fi-6110

(10) Click [Scan] menu \rightarrow [Scan Settings] to display the [Scan Settings] dialog box.

- \Rightarrow [Scan Settings] dialog box appears.
- (11) In the [Scan Settings] dialog box, clear the check box [Save to file].

NOTICE

The user may configure specific destination folder and name rule. Therefore, the procedure described here is for when the image data is confirmed on the window (the data is not saved to file).

Scan Settings		-		Scan Settings			1
Santalia	Sector sector sector			Gean Sectings	Cle	ear the checkbox of [Save to file].	
Folde Name File/Name	C-UserIveEDwarets Inspill71	Broom.		Save to file	ן		
Refund	Visitor Dina; Ciral	+ FDF Option		Folder Nar	ne:	C:\Users Documents	L
Callo Farnat Compression	Use Ostal Toarner Settings Follow onlyware determined compression	+ JPEO Dually		File Name		image0011	
Document (i) Several po C Contractor	ges is and title	TEL month				√ Use the Name Rule	
File Overande Vol	tering fenation-dates on the committee			File Forma	t:	Windows Bitmap (*.bmp)	
O De ser des	lay continuation during on the assessme						
# foand O Soantes	pediet-uniter of pages		Reference If the	e [Display the s	canne	ed document image immediately after	the
Z Show card	imation when there is no paper on ADF		scan] check box is c	leared	l, the [Save to file] check box canno	ot be
C Paton AD	F vitual digites scarring		clear	red.			
2 Disks for co	erred document image immediately after it	w scan					
Scame Seting.	Statul OK	Careed Help					

									Name	fi-6′ Maintenan	110 Ice N	lanual
03	Dec 20, 11	Yashima	a Ueda	Maki	Refer to Rev	vision Record	on page 2	2.	Drawing			
02	Aug. 2, 10	K.Okada	a A.Miyoshi	I.Fujioka	Refer to Rev	vision Record	on page 2		No. P1PA03607 - B00X/6			300X/6
Rev.	DATE	DESIG.	CHECK	APPR.	DESCRIPTIO	DN			DE		Daga	132
DE	SIG. July 1	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	РГ		Page	152

(12) In the [Scan Settings] dialog box, click the [Scanner Setting] button.
 ⇒Scanner driver setting dialog box appears.



- (13) Scan settings such as scan resolution and document size can be configured.
 - For FUJITSU TWAIN32
 - \Rightarrow Configure the scan settings and then click the [OK] button.

- NOTICE

The scanner driver setting dialog box may appear again when you click the [OK] button.

- For ISIS
 - \Rightarrow Configure the scan settings and then click the [OK] button.

TWAIN Driver (32)		Properties for Fujitsu fi-6110 on
0 1 2 3 4 5 6 7 8	Image Scannet: fi-6110dj SIPC Browse	Color Dropout Compression Blank Page Deletion About
•=	Setting Files: 00 : Current Setting Config	Main Layout Image Processing Paper Handling Gamma
and a submitted		Image Mode Data per indit: Cynnex: 300 Provi Inage #12 Differ: Back Inage #12 Capping Mode Feed Mode Speed Accuracy G
	Bisck & White Image in the state Bisck & White Threshold	24 SH Calor Auto Detect 35-Norde Auto Detect 35-Nord Grayscale Auto Detect 35-Nor Calor 128 — 1 255
Scanning Area[inch] Leit 0.000 Iop 0.000 Width: 8.500 Length: 11.000	Haltone	Setup /PC Contrast 1 100
S can Preview	Adgence	
OK Reset TWAIN driver. Press [F1] key to show help.	Option Help About Data Size about 25.314B	OK Cancel Defaut Help
[For FUJITS	U TWAIN 321	[For ISIS]



(14) In the [Scan Settings] dialog box, click the [Scan] button.

⇒The document is scanned and the image data is displayed on the ScandAll PRO screen.

When an error occurs, the Function Number Display alternates between either "J" or "U" and an "error number" for temporary errors, and either "E", "H" or "L" and an "alarm number" for device errors.

									Name	fi-6 Maintenar	110 nce N	lanual
03	Dec 20, 11	Yashima	Ueda	Maki	Refer to Rev	ision Record	on page 2	2.	Drawing			
02	Aug. 2, 10	K.Okada	A.Miyoshi	I.Fujioka	Refer to Rev	ision Record	on page 2		No. P1PA03607 - B00X/6			300X/6
Rev.	DATE	DESIG.	CHECK	APPR.	DESCRIPTIO	N			DE		Dogo	133 /
DE	SIG. July 1	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	F I		гауе	/152

8.2.2 Documents with Different Widths

When you scan documents of different widths, load the documents in the following procedure:

- When you scan documents of different widths at the same time, some of the smaller documents may be skewed or may not be fed into the scanner. Try to scan documents of the same width.
- For details about scanning a mixed batch of documents, refer to Section 1.2.7 "Mixed Batch Scanning".
 - (1) To avoid skewed images and detect the paper size automatically, select [Automatic Page Size Detection] in [Automatic Size and Skew Detection].
 - (2) Start up ScandAll PRO and open the [TWAIN Driver (32)] dialog box.
 - (3) Click the [Option] button to display the [Options] dialog box.
 - (4) Click the [Rotation] tab and select [Automatic Page Size Detection] in the [Automatic Size and Skew detection] drop-down list.

Option X									
Rotation Job/Cache Generic Startup Filter Compression									
Flip Side Rotation	OK Cancel								
A A A A A A A A A A A A A A A A A A A	Help								
Rotation									
<u>R</u> otation Degree: <u>H</u> ole punch removal:									
0.0 degree 💌 Do not remove 💌									
Automatic Size and Skew detection									
Automatic Page Size Detection									
Priority: □ Split Image(⊻)									
2 0:Rectangular document									
1:Document without tab									
0 3 2:Document with tab									
Overscan S:Document in dark background color									

- (5) Click the [OK] button. It returns to the [TWAIN Driver (32)] dialog box.
- (6) Click the [OK] button in the [TWAIN Driver (32)] dialog box. The settings are saved.
- (7) Align the edges of the documents.



									Name	fi-6110 Maintenance Manual
03	Dec 20, 11	Yashima	Ueda	Maki	Refer to Rev	vision Record	on page 2	-	Drawing	
02	Aug. 2, 10	K.Okada	a A.Miyoshi	I.Fujioka	Refer to Rev	ision Record of	on page 2		No.	P1PA03607-B00X/6
Rev.	DATE	DESIG.	CHECK	APPR.	DESCRIPTIC	DN				
DE	SIG. July 1	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	РГ	

Section 8.2.2

(8) Place the documents at the center of the ADF paper chute, and adjust the side guides to the widest document in the batch. For details, refer to Section 8.1.4 "Loading Documents".



Make sure that all documents are placed underneath the pick roller, otherwise the documents will not be picked.

(9) Scan the document by clicking the [Scan] menu \rightarrow [Scan] in ScandAll PRO.

									Name	fi-6110 Maintenance Manual
03	Dec 20, 11	Yashima	Ueda	Maki	Refer to Revis	sion Record	on page 2		Drawing	
02	Aug. 2, 10	K.Okada	A.Miyoshi	I.Fujioka	Refer to Revis	sion Record of	on page 2		No.	P1PA03607-B00X/6
Rev.	DATE	DESIG.	CHECK	APPR.	DESCRIPTION	N			DE	
DE	SIG. July 15	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	Pr	

8.3 Cleaning

As a guideline, clean the scanner every 1,000 sheets scanned.

Note that this guideline varies depending on the type of documents you scan.

NOTICE

Cleaning cycles may vary depending on the condition of the documents. Also, cleaning must be performed more frequently when the following types of documents are scanned:

- Smooth-faced documents such as coated paper
- Documents with printed text/graphics that almost cover the entire surface
- Chemically-treated documents such as carbonless paper
- Documents containing a large amount of calcium carbonate
- Documents written with lead pencil
- Documents on which the toner is not sufficiently fused

No.	Cleaning location	Cleaning procedure	Remarks
1	Outside of the scanner	Refer to Section "8.3.1" for information on how to clean the outside of the scanner.	
2	Pad ASSY	Refer to Section 8.3.2 (1) for information on how to clean the pad assy.	
3	Pick Roller	Refer to Section 8.3.2 (2) for information on how to clean the pick roller.	
4	Idler Roller	Refer to Section 8.3.2 (3) for information on how to clean the idler roller.	
5	Glass	Refer to Section 8.3.2 (4) for information on how to clean the glass.	
6	Ultrasonic Sensor	Refer to Section 8.3.2 (5) for information on how to clean the ultrasonic sensor.	
7	Feed Roller	Refer to Section 8.3.2 (6) for information on how to clean the feed roller.	
8	Eject Roller	Refer to Section $8.3.2$ (6) for information on how to clean the eject roller.	

8.3.1 Cleaning the Outside

The outside of the scanner, including the ADF paper chute and the stacker, should be cleaner with either a piece of dry cloth or a cleaning wipe.

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



									Name	fi-6′ Maintenan	110 Ice N	lanual
03	Dec 20, 11	Yashima	Ueda	Maki	Refer to Rev	vision Record	on page 2	2.	Drawing			
02	Aug. 2, 10	K.Okada	A.Miyoshi	I.Fujioka	Refer to Rev	ision Record	on page 2		No.	P1PA03607	7 — E	300X/6
Rev.	DATE	DESIG.	CHECK	APPR.	DESCRIPTIC	DN			DE		Daga	136 /
DE	SIG. July 15	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	Pr		гауе	/152

Section 8.3.2

8.3.2 Cleaning the Inside

The inside of the scanner should be cleaned with a sheet of cleaning wipe or a piece of cloth moistened with isopropyl alcohol. As the scanner continues to feed the documents, paper dust will accumulate inside the scanner and it may cause scanning errors. As a guideline, clean the inside of the scanner every 1,000 sheets scanned. Note that this guideline varies depending on the type of documents you scan. For instance, it may be necessary to clean more frequently when you scan documents on which the toner is not sufficiently fused.

▲ CAUTION

- The glasses inside the ADF become very hot when the scanner is being used. When cleaning the inside of the scanner, make sure to unplug the power cable and wait for at least 15 minutes before you start cleaning.
- When you perform cleaning, make sure that the inside is free of foreign matter, and be careful not to get your hand or the cloth caught on the pick spring (metal part) as a deformed pick spring (metal part) may cause injury.

- Do not use water or mild detergent to clean the inside of the scanner.
- It may take a long time to dry if an excessive amount of isopropyl alcohol is used. Moisten the cloth with moderate quantity. Wipe off the cleaner completely to leave no residue on the cleaned parts.
 - (1) Turn off the scanner and wait for at least 15 minutes. (Refer to Section 8.1.1 "Turning the Power ON/OFF".)
 - (2) Open the ADF. (Refer to Section 8.1.2 "Opening/Closing the ADF".)

▲ CAUTION

Be careful not to have your fingers caught when the ADF closes.

(3) Clean the following locations with a sheet of cleaning wipe or a cloth moistened with isopropyl alcohol.



									Name	fi-6′ Maintenan	110 Ice N	lanual
03	Dec 20, 1	l Yashim	a Ueda	Maki	Refer to Rev	vision Record	on page 2		Drawing			
02	Aug. 2, 1) K.Okać	a A.Miyoshi	I.Fujioka	Refer to Rev	vision Record	on page 2		No.	P1PA03607	7 — E	300X/6
Rev.	DATE	DESIG	CHECK	APPR.	DESCRIPTIO	DN					Daga	137 /
DES	SIG. July	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	РГ		Page	/152

① Pad ASSY (x1)

Wipe the dirt and dust off the surface of the rubber pads, downwards from top to bottom. Be careful not to get your hand or the cloth caught on the pick spring (metal part).

② Ultrasonic Sensor (x2)

Gently wipe the dirt and dust off the surface of the ultrasonic sensors.

3 Idler Roller (x4)

Gently wipe the rollers as you rotate them manually. Be careful not to damage the roller surface. Make sure that it is cleaned properly because residue on the roller will affect the feeding performance.

④ Glass (x2)

Gently wipe the dirt and dust off the surface of the glass sections.

5 Pick Roller (x1)

Gently wipe the roller as you rotate it downwards manually. Be careful not to damage the roller surface. Make sure that it is cleaned properly because residue on the roller will affect the feeding performance.

(5) Feed Roller (x1) / Eject Roller (x2)

The power must be turned on to rotate the feed/eject rollers.

- (1) Turn on the scanner. (Refer to Section 8.1.1 "Turning the Power ON/OFF".)
- (2) Open the ADF when "1" is displayed on the Function Number Display. (Refer to Section 8.1.2 "Opening/Closing the ADF".)

[Reference]

If you open the ADF when "P" or "0" is displayed on the Function Number Display, the feed/eject rollers do not rotate even when you proceed to the next operation.

(3) When you press the [Send to] and [Scan/Stop] buttons at the same time, the feed/eject rollers rotate a certain amount.

▲ CAUTION

When you press the [Send to] button and the [Scan/Stop] button at the same time, the feed rollers and eject rollers rotate together. Be careful not to touch the rollers while they are rotating.



(4) Put a sheet of cleaning wipe or a cloth moistened with isopropyl alcohol against the roller surface, and wipe horizontally.

Wipe the whole surface by pressing the [Send to] and [Scan/Stop] buttons at the same time to rotate the rollers. Make sure that it is cleaned properly because black residue on the roller will affect the feeding performance.

[Reference]

As a guideline, pressing the [Send to] and [Scan/Stop] buttons six times will rotate the feed/eject rollers one revolution.

(5) Close the ADF. (Refer to Section 8.1.2 "Opening/Closing the ADF".)

Confirm that the ADF is closed properly. Otherwise, the document may not be fed through the ADF.

										Name	fi-6′ Maintenar	110 Ice N	lanual
03	Dec 20,	, 11	Yashima	Ueda	Maki	Refer to Rev	vision Record	on page 2	·	Drawing			
02	Aug. 2,	, 10	K.Okada	A.Miyoshi	I.Fujioka	Refer to Rev	ision Record	on page 2		No.	P1PA03607	7—E	300X/6
Rev.	DAT	ΓE	DESIG.	CHECK	APPR.	DESCRIPTIC	N			DE		Daga	138
DE	SIG. Jul	ıly 15	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	F		гауе	/152

8.4 Consumables

Consumables need to be replaced periodically. It is recommended that you keep a stock of new consumables and replace them before it reaches the end of the consumable life.

8.4.1 List of Consumables

The following table shows the consumables used for the scanner.

No.	Name	Part No.	Suggested replacement cycle	Usage status check	How to replace
1	PAD ASSY	PA03586-0002	50,000 sheets or one year	8.5.4.1	8.4.3
2	PICK ROLLER	PA03586-0001	100,000 sheets or one year	8.5.4.1	8.4.4

*Note that the suggested replacement cycles are guidelines for using A4 (80 g/m² [20 lb]) wood-free or wood-containing paper as these cycles vary depending on the type of papers scanned and how often the scanner is used and cleaned.

8.4.2 Checking and Resetting the Consumable Counters

Select one of the following methods to perform "Checking the consumable replacing timing" and "Clearing the consumable counters". Please select method ② "Check/Clear [Show/Clear Counters] on Offline Maintenance Mode" when performing maintenance.

- Check/Clear on Software Operation Panel (SOP) (Refer to Section 8.5.4 "Checking and Resetting the Counters".)
- ② Check/Clear [Show/Clear Counters] on Offline Maintenance Mode (Refer to Section 7.1.6 "Consumable Counter Display and Reset".)

[Reference]

The items that can be cleared differ depending on the method. Select a method according to the item you want to clear.

No	Consumable counter	(1) S	SOP	(2) Mainten	ance mode	Remarks
110	Consumable counter	Check	Clear	Check	Clear	ixemai kş
1	Pad ASSY	Y	Y	Y	Y	
2	Pick Roller	Y	Y	Y	Y	

									Name	fi-6′ Maintenar	110 Ice N	lanual
03	Dec 20, 11	Yashima	a Ueda	Maki	Refer to Rev	ision Record	on page 2	2.	Drawing			
02	Aug. 2, 10	K.Okada	a A.Miyoshi	I.Fujioka	Refer to Rev	vision Record	on page 2		No.	P1PA03607	7—E	300X/6
Rev.	DATE	DESIG.	CHECK	APPR.	DESCRIPTIO	DESCRIPTION					Daga	139
DE	SIG. July 1	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	P		Page	152

8.4.3 Replacing the Pad ASSY (supplied part)

- (1) Remove all documents from the ADF paper chute.
- (2) Open the ADF. (Refer to Section 8.1.2 "Opening/Closing the ADF".)

NOTICE

Be careful not to have your fingers caught when the ADF closes.

(3) Remove the pad assy. Hold both ends of the pad assy and pull it out in the direction of the arrow.



(4) Attach a new pad assy. Push the pad assy in until the hooks on both sides lock in place.



Confirm that the pad assy is installed properly. Otherwise, it may cause feeding errors such as paper jams.

(5) Close the ADF. (Refer to Section 8.1.2 "Opening/Closing the ADF".)

Be careful not to have your fingers caught when the ADF closes.

(6) Reset the consumable counter. (Refer to Section 8.5.4.2 "Resetting the counters".)

								Name	fi-6′ Maintenan	110 Ice N	lanual
03	Dec 20, 11	Yashima	Ueda	Maki	Refer to Revision Rec	cord on page	2.	Drawing			
02	Aug. 2, 10	K.Okada	A.Miyoshi	I.Fujioka	Refer to Revision Rec	ord on page 2	2.	No.	P1PA03607	7 — E	300X/6
Rev.	DATE	DESIG.	CHECK	APPR.	DESCRIPTION					Daga	140 /
DE	SIG. July 1	5,2010	K.Okada	CHECK	A.Miyoshi	APPR.	I.Fujioka	РГ		Page	152

8.4.4 Replacing the Pick Roller (supplied part)

- (1) Remove all documents from the ADF paper chute.
- (2) Remove the ADF paper chute. (Refer to Section 6.8.1.)
- (3) Open the ADF. (Refer to Section 8.1.2.)
- (4) Remove the Guide P ASSY. (Refer to Section 6.8.3.)
- (5) Rotate the bushing (left).



(6) Remove the shaft by slightly pulling up the left part of the shaft (about 5 mm), moving it towards the left side, and then lifting it up.



(7) Remove the pick roller from its shaft by pulling out the shaft as you lift the retaining clip.



Lifting the retaining clip with your fingernail may hurt or damage your fingernail. Use a paper clip or something alike if you have trouble lifting it up.



										Name	fi-6 [⁄] Maintenar	110 nce N	lanual
03	Dec 20,	11 Y	ashima	Ueda	Maki	Refer to Rev	vision Record	on page 2	2.	Drawing			
02	Aug. 2,	10 K	.Okada	A.Miyoshi	I.Fujioka	Refer to Rev	vision Record	on page 2		No.	P1PA03607	7 — E	300X/6
Rev.	DAT	ΕI	DESIG.	CHECK	APPR.	DESCRIPTIO	DN			DE		Daga	141 /
DE	SIG. Jul	y 15, 2	2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	РГ		rage	152

(8) Attach a new pick roller on the shaft by inserting the protrusion on the shaft into the slot.



(9) Attach the shaft. Insert the right end of the shaft into the bushing (right), and set the shaft into the slot gradually by lowering it.



(10) Secure the bushing (left).

Confirm that the shaft is installed properly. Otherwise, it may cause feeding errors such as paper jams.



(11) Attach the Guide P ASSY. (Refer to Section 6.8.3.)

Confirm that the Guide P ASSY is installed properly. Otherwise, it may cause feeding errors such as paper jams. (12) Close the ADF. (Refer to Section 8.1.2.)

NOTICE

Be careful not to have your fingers caught when the ADF closes.

- (13) Attach the ADF paper chute. (Refer to Section 6.8.1.)
- (14) Reset the consumable counter. (Refer to Section 8.5.4.2 "Resetting the counters".)

									Name	fi-6′ Maintenan	110 Ice N	lanual
03	Dec 20, 11	Yashima	a Ueda	Maki	Refer to Rev	vision Record	on page 2	2.	Drawing			
02	Aug. 2, 10	K.Okada	a A.Miyoshi	I.Fujioka	Refer to Rev	vision Record	on page 2		No.	P1PA03607	7 — E	300X/6
Rev.	DATE	DESIG.	CHECK	APPR.	DESCRIPTIO	DN			DE		Daga	142
DE	SIG. July 1	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka			rage	152

8.5 Scanner Settings

8.5.1 Software Operation Panel

The Software Operation Panel (SOP) is an application which allows you to configure various settings such as the operation of the scanner and managing the consumables. The Software Operation Panel (SOP) is installed together with the scanner drivers TWAIN and ISIS, and the setting information is stored in EEPROM.

You can configure and check the following items using the Software Operation Panel.

- Diagnosis: Configure device setting. For more information, refer to Section 8.5.3.1.
- Device Info: Various kinds of information about the device. For more information, refer to Section 8.5.3.2.
- Device Setting/Device Setting 2: Configure operational settings for scanning. For more information, refer to Sections 8.5.3.3 and 8.5.3.4.

Reference

You cannot refer to [Device Info] or manage [Device Set] in the [Properties] dialog box of [Scanners and Cameras] for this device.

ieneral Events Color Management	Diagnosis Device Info Device Set About
Fi-6110dj Manufactured by FUJITSU Scanner Status Status: Device Ready On Port Optical resolution: 600x600 DPI Diagnostics Test Scanner No setting tabs displayed	Coor Management Coor Management Image: Coor Management Ima
OK Cancel Apply	OK Cancel Apply

									Name	fi-61 Maintenan	10 ce N	lanual
03	Dec 20, 11	Yashima	Ueda	Maki	Refer to Revi	ision Record	on page 2	-	Drawing			
02	Aug. 2, 10	K.Okada	a A.Miyoshi	I.Fujioka	Refer to Revi	ision Record	on page 2		No.	P1PA03607	́ — Е	300X/6
Rev.	DATE	DESIG.	CHECK	APPR.	DESCRIPTIO	N					Daga	143 /
DE	SIG. July 1	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	РГ		Page	152

8.5.2 Starting Up the Software Operation Panel

Start up the Software Operation Panel in the following procedure.

- The Software Operation Panel must be started up by a terminal user with administrator privileges.
- Device setting information configured in the Software Operation Panel is stored in EEPROM.

(1) Select the [Start] menu, → [All Programs] → [Scanner Utility for Microsoft Windows] → [Software Operation Panel].
 (2) The [FUJITSU Software Operation Panel] dialog box appears.



8.5.3 Software Operation Panel Items

8.5.3.1 Diagnosis

You can diagnose the scanner and display the diagnosis report.

FUJITSU Software Operation Panel	
Device Info Device Info Device Setting Device Setting 2 Multifeed Page Edge Filler (ADF) Dropout color Pre-Pick Document check area specific Intelligent Multifeed Function Number of paper feeding retrie Useful fife counter Manual-feed timeout Power SW Control Paper Protection Paper Protection Paper Protection Sensitivity	To diagnose the scanner Diagnose Report not diagnosis yet.
	OK Cancel Apply (Å)

									Name	fi-6′ Maintenan	110 Ice N	lanual
03	Dec 20, 11	Yashima	Ueda	Maki	Refer to Revision Record on page 2.				Drawing			
02	Aug. 2, 10	K.Okada	A.Miyoshi	I.Fujioka	Refer to Revision Record on page 2.				No.	P1PA03607	7—E	300X/6
Rev.	DATE	DESIG.	CHECK	APPR.	DESCRIPTION				DE		Daga	144 /
DE	SIG. July 1	July 15, 2010		CHECK	A.Miyoshi		APPR.	I.Fujioka	РГ		Page	152
Section 8.5.3.2

8.5.3.2 Device Info

You can display/clear the page counter, configure the power saving, and perform offset/magnification adjustment.

FUJITSU Software Operation Panel				Offset	— X —
				Offset Setting:	
Discussio				 Unit ADElfront V	1ain: 0 - v0.5mm
Diagnosis	- Page Counter				
Device Setting)	Total Page Count(ADF):	185030 pag	es	<u>S</u> ub: 0 + x0.5mm	
- Multifeed		pag	es	End of page: 0 x0.5mm	1
Page Edge Filler (ADF)		pag	es Clear(<u>1</u>)		
- Document check area specific	Pad:	50500 pag	es Clear(<u>2)</u>		
Intelligent Multifeed Function	Pick Roller:	96500 pag	es <u>Clear(3)</u>		
- Life Counter Alarm Setting		pag	es Clear(<u>4</u>)	Vertical magnification Adjustment	
Power SW Control		pag	es Clear(<u>5</u>)	Unit ADF 🗸	
		pag	es	-31%	31% (-31% 31%)
			Clear(<u>6</u>)		
		~	Clear(<u>7</u>)		, 0.0 %
	Power saving:				
		Г	15 minutes		OK Cancel
		. ,			
4			Offset		
		OK Ca	ncel Apply		

■Device Setting

Item	Description	Parameter/Value	Factory Default
Page Counter	Check the counters to determine when to replace the consumables. Also use it to reset the counters after replacing the consumables.	Total Page Count (ADF) / Pad / Pick Roller	0
Power saving	Specify the waiting time before entering power saving mode.	Range: 5 to 235 min. (in increments of 5)	15 min.
Offset Setting	Adjust the position to start the scan on the selected scanning side(s).	Unit: ADF (Front) / ADF (Back) Main/Sub/End of page: -2 to +2 mm (in increments of 0.5)	Main/Sub/End of page: 0 mm
Vertical magnification adjustment	Adjust the magnification level in feed direction for the selected scanning method.	Unit: ADF Range: -3.1 to 3.1% (in increments of 0.1)	0%

									Name	fi-6′ Maintenan	110 Ice N	lanual
03	Dec 20, 11	Yashima	Ueda	Maki	Refer to Rev	vision Record	on page 2	2.	Drawing			
02	Aug. 2, 10	K.Okada	a A.Miyoshi	I.Fujioka	Refer to Rev	vision Record	on page 2		No.	P1PA03607	7 — E	300X/6
Rev	DATE	DESIG.	CHECK	APPR.	DESCRIPTIO	DN			DE		Daga	145 /
DE	SIG. July 1	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	РГ		Page	152

8.5.3.3 Device Setting 2

You can configure detailed scanner settings.

FUJITSU Software Operation Panel		
Diagnosis Device Info Device Setting	Preferences Multifeed Page Edge Filler (ADE)	Value 1
- Page Edge Filler (ADF)	Dropout color Document check area specification for	Green
Dropout color Document check area specific Intelligent Multifeed Function	- Modes of Selection - Specify area Intelligent Multifeed Function	Specify non-detection 0 - 0 mm Auto mode 2 Do not r
Number of paper feeding retrie Life Counter Alarm Setting Reques SV (Control	Number of paper feeding retries Life Counter Alarm Setting	3 times
	- Pick Rollers - Brake Rollers Power SW Control	50000 pages Enable power switch
4	Default	Save Restore
	ОК	Cancel Apply (A)

										Name	fi-6 Maintenar	110 1ce N	lanual
03	Dec 20	, 11	Yashima	Ueda	Maki	Refer to Rev	ision Record	on page 2		Drawing			
02	Aug. 2	, 10	K.Okada	A.Miyoshi	I.Fujioka	Refer to Rev	vision Record	on page 2		No.	P1PA0360	7—E	300X/6
Rev	DAT	ΓE	DESIG.	CHECK	APPR.	DESCRIPTIO	DN			DE		Dogo	146
DE	SIG. Ju	ıly 15	,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	FI		гауе	/152

■ Dev	ice Setting 2		
Item	Description	Parameter/Value	Factory Default
Multifeed	Specify a method for multifeed detection. Detect multifeeds by monitoring the overlap, document length, or the combination of both. This setting can also be configured from the	None / Check Overlapping (Ultrasonic) / Check Length / Check Overlapping and Length	None
	scanner driver's setup dialog box. Note that priority is given to the scanner driver setting.	Length: 10 / 15 / 20 mm (for detection by document length)	Length: 10mm
Page Edge Filler (ADF)	Specify a width for the margin around the edge of the scanned image to fill in white. With TWAIN driver, this setting can also be configured from the scanner driver's setup dialog box. Note that priority is given to the setting with a larger value.	Top / Left / Right: 0 to 15 mm Bottom: -7 to 7 mm (in increments of 1)	Top/Bottom/Left/Right: 0 mm
Dropout color	Select a color to be removed from the scanned image (only available in black & white or grayscale mode). With TWAIN driver, this setting can also be configured from the scanner driver's setup dialog box. Note that priority is given to the scanner driver setting. With ISIS driver, the scanner driver setting is enabled at all times.	Red / Green / Blue / None	Green
	Selected range: Select this item to restrict the area to run multifeed detection.	[Selected area] check box	Not selected
Document check area specification for	Enable / Disable (Middle): Specify whether to enable or disable multifeed detection in the selected area.	Enable / Disable (When [Selected range] is selected)	Disable
Multifeed Detection	Start (Middle): Specify the start position of the area in length (mm) from the leading edge of the document.	0 to 510 mm (in increments of 2)	0 mm
	End (Middle): Specify the end position of the area in length (mm) from the leading edge of the document.	0 to 510 mm (in increments of 2)	0 mm
Intelligent Multifeed Function	When there is a paper of the same size attached to a designated location on the page, configure the scanner to memorize the location of the attachment and not detect multifeeds for that location. Note that you first need to select [Check Overlapping (Ultrasonic)] or [Check Overlapping and Length] in either the scanner driver's setup dialog box or the multifeed detection setting.	Manual mode / Auto mode 1 / Auto mode 2	Manual mode
	Select to clear the overlap pattern (length, location) memorized in Auto mode.	[Clear overlap pattern] check box	Not selected
Number of paper	Specify whether or not to memorize the multifeed pattern upon power-off.	Remember / Do not remember	Do not remember
feeding retries	of feeding retries when a pick error occurs.	1 to 12 times	3 times
Life Counter Alarm Setting	Specify the replacement cycle for the consumables.	Each consumable 10,000 to 2,550,000 sheets (in increments of 10,000)	Pad; 50,000 sheets
Power SW Control	Specify the method by which the scanner is powered ON/OFF.	Enable power switch / Disable power switch / Enable USB power feeding	Enable power switch

									Name	fi-6110 Maintenance Manual
03	Dec 20,	11 Yashir	na Ueda	Maki	Refer to Rev	vision Record	on page 2		Drawing	
02	Aug. 2,	10 K.Oka	da A.Miyoshi	I.Fujioka	Refer to Rev	vision Record	on page 2		No.	P1PA03607-B00X/6
Rev.	DAT	E DESIG	G. CHECK	APPR.	DESCRIPTIO	DN			DE	
DE	SIG. Jul	15,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	РГ	

8.5.4 Checking and Resetting the Counters [Page Counter]

You can check and reset the page counter using the Software Operation Panel (SOP).

8.5.4.1 Checking the counters

Check the page counter in the following procedure.

- (1) Start up the Software Operation Panel. (Refer to Section 8.5.2.)
- (2) From the listing on the left, select [Device Setting].
- (3) Page counters are listed on the right side of the displayed dialog box. In this dialog box, you can check the following items.

Item	Description
Total Page Count (ADF)	Approximate total number of sheets scanned through the ADF
Pad	Number of sheets scanned after replacing the pad assy (in units of 500)
Pick roller	Number of sheets scanned after replacing the pick roller (in units of 500)

• The color of the counter changes to indicate that the consumable needs replacement. The [Device Setting] counter turns light yellow when the page count after replacing the consumable reaches 95% of the value specified in "Replacement Cycle of Consumables [Life Counter Alarm Setting]", and turns yellow when it reaches 100%.

FUJITSU Software Operation Panel				
Diagnosis Device Info Device Setting	Page Counter: Total Page Count(ADF): Pad: Pick Roller:	185030 50500 96500	pages pages pages pages pages pages pages % %	Clear(1) Clear(2) Clear(3) Clear(4) Clear(5) Clear(6) Clear(7)
4	Power saving:		15	minutes <u>O</u> ffset
		ок	Cancel	Apply (A)

									Name	fi-6 [⁄] Maintenar	110 Ice N	lanual
03	Dec 20, 11	Yashima	Ueda	Maki	Refer to Rev	vision Record	on page 2	2.	Drawing			
02	Aug. 2, 10	K.Okada	a A.Miyoshi	I.Fujioka	Refer to Rev	vision Record	on page 2		No.	P1PA03607	7 — E	300X/6
Rev	DATE	DESIG.	CHECK	APPR.	DESCRIPTIO	DN			DE		Dege	148 /
DE	SIG. July 1	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka			rage	152

8.5.4.2 Resetting the counters

Reset the page counter in the following procedure.

Reset the corresponding counters only when you have replaced the consumables.

- (1) Start up the Software Operation Panel. (Refer to Section 8.5.2)
- (2) From the listing on the left, select [Device Setting].
- (3) Click the [Clear] button for the consumable(s) that you replaced.
- (4) Check that the counter is reset to 0, and then click the [OK] button.



									Name	fi-6′ Maintenan	110 Ice N	lanual
03	Dec 20, 1	l Yashim	a Ueda	Maki	Refer to Rev	vision Record	on page 2	2.	Drawing	_ /	_	
02	Aug. 2, 10	K.Okad	a A.Miyoshi	I.Fujioka	Refer to Rev	vision Record	on page 2		No.	P1PA03607	7 — E	300X/6
Rev.	DATE	DESIG.	CHECK	APPR.	DESCRIPTIO	DN			DE		Daga	149 /
DES	SIG. July	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	РГ		Page	/152

Appendix 1 Screws

The screws that are used in this device are as follows.

Name on this manual	Description	Part number	M (mm)	L (mm)	Remarks
Screw A	Small screw	RU6SNA2R3-05121	3	5	
(}	Ŧ			





Name on this manual	Description	Part number	M (mm)	L (mm)	Remarks
Screw B	Screw	RU6SW3N3-08121	3	8	





Name on this manual	Name on this manual Description		M (mm)	L (mm)	Remarks
Screw C	Screw	RU6SW3N3-10121	3	10	



I



Name on this manual	Description	Part number	M (mm)	L (mm)	Remarks
Tapping screw A	PT screw	PA83952-2638	3	8	
(<u>}_</u>]			

Name on this manual	Description	Part number	M (mm)	L (mm)	Remarks
Tapping screw B	PT screw	PA83952-2636	3	6	

ΣĴ





										Name	fi-6 Maintenar	fi-6110 Maintenance Manual			
03	Dec	20,11	Yashima	Ueda	Maki	Refer to Rev	ision Record	on page 2	2.	Drawing					
02	Aug	g. 2, 10	K.Okada	A.Miyoshi	I.Fujioka	Refer to Rev	vision Record	on page 2	-	No.	P1PA0360	7—E	300X/6		
Rev	. D.	ATE	DESIG.	CHECK	APPR.	DESCRIPTIO	DN			DE		Dogo	150 /		
DE	SIG.	July 15	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	ГГ		Faye	/152		

Appendix 2 Emulation Mode

Emulation of the following scanners can be specified on this scanner.

Model name	Scanner that can be emulated	Remarks
fi-6110	fi-5110C	

To activate the Emulation function, scanner setting needs to be changed.

For the configuration method, see below.

The functions enhanced on the fi-6110 are not available while being emulated.

When [Check thickness] is selected for multifeed detection, multifeed is detected by overlapping.

1. Launching "Emulation switching mode"

While "Emulation switching mode" is activating, interface connection with the computer is disabled.

1. With the ADF open and the Empty sensor status ON, press the Power button while pressing the Function button to turn the power on. (Screen: E01)

[Reference] The Empty Sensor automatically becomes [ON] when the ADF is opened.

- 2. The power is turned on, and the activation console at "Emulation switching mode" starts. (Screen: E03)
- 3. When the Function Number Display shows that the scanner is in Maintenance mode, let go of the Function button. (Screen: E03)
- 4. The scanner is transited to the "Emulation switching mode". (Screen: E04)

Check the table below for scanner operation and status of the Function Number Display.

[Operation and status of the Function Number Display while activating the "Emulation switching mode"]

Screen	Operation	eration Function eration Number Status Display		Remarks
E01	ADF open + Pressing the Function button + Press the Power button to turn on	(OFF)	Power OFF	
E02	Pressing the Function button (with ADF open)		Initializing	
E03	Let go of the Function button (with ADF open)	(ON)	Maintenance mode	Maintenance mode activating console is displayed when the initialization is completed successfully.
E04	Close the ADF.		Emulation switching mode	

									Name	fi-6110 Maintenance Manual
03	Dec 20, 11	Yashima	Ueda	Maki	Refer to Rev	vision Record	on page 2	-	Drawing	
02	Aug. 2, 10	K.Okada	a A.Miyoshi	I.Fujioka	Refer to Rev	ision Record	on page 2		No.	P1PA03607-B00X/6
Rev.	DATE	DESIG.	CHECK	APPR.	DESCRIPTIO	DN			DE	
DE	SIG. July 1	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	РГ	

2. "Emulation switching mode" setting method

- 1. Pressing the Scan/Stop button during "Emulation switching mode" displays the current status on the Function Number Display.
- 2. Pressing the Function button updates the number on the Function Number Display. Select the number corresponding to the scanner to be emulated.

Function Number Display (scanner number)	Emulated mode	Remarks
0	fi-6110	Initial value (standard) Emulation mode invalid
1	fi-5110C	

The following table shows the numbers corresponding to the scanner to be emulated.

3. Pressing the Scan/Stop button displays the selected scanner name (numbers) on the Function Number Display by turns.

Function Number Display (scanner number)	Emulated mode	How to display
0	fi-6110	"6110" is displayed as below repeatedly. "-" \rightarrow "6" \rightarrow "SP" \rightarrow "1" \rightarrow "SP" \rightarrow "0" \rightarrow "SP"
1	fi-5110C	"5110" is displayed as below repeatedly. "-" \rightarrow "5" \rightarrow "SP" \rightarrow "1" \rightarrow "SP" \rightarrow "1" \rightarrow "SP" \rightarrow "0" \rightarrow "SP"

* The first "-" is a start mark. "SP" signifies "OFF: No display". Switching interval is 0.5 second.

4. If the scanner name (numbers) displayed on the Function Number Display is correct, press the Function button to go to EEPROM writing process.

Function button: Asks whether to write the selected mode into EEPROM. (Screen: E05) Send to button: Cancels the process and returns to initial display of Emulation mode. (Screen: E04)

5. Press the Scan/Stop + Function buttons to start writing the changed setting into EEPROM. (Screen: E06)

6. If writing into EEPROM is complete successfully, the Function Number Display shows "o" (upper). (Screen E07) If writing into EEPROM failed, the Function Number Display shows "c". (Screen: E08) Restart the operation from launching the "Emulation switching mode".

Screen	Operation	Status	Remarks			
E05	Press Function button: Asks whether to write into EEPROM Press Send to button: Cancels the process and returns to the initial screen.	(Blink)	Asking whether to write into EEPROM	Blinks "o" (lower). Interval of blinking: 1.0 second (Switching interval of light ON and OFF is 0.5 second)		
E06	Scan/Stop button + Function button	(ON)	Writing into EEPROM	Displays "L" without blinking. * No button is available.		
E07	Go to step (7) "Restart scanner".	O (ON)	Writing into EEPROM is complete successfully	Displays "o" (upper) without blinking.		
E08	Retry by launching the "Emulation switching mode".	(ON)	Writing to EEPROM failed	Displays "c" (lower) without blinking.		

7. Restart the scanner.

If the writing process to EEPROM is complete successfully, press the Power button for more than two seconds to turn off the power and back on again to restart the scanner. The scanner is launched as an emulated scanner.

									Name	fi-6′ Maintenar	110 Ice N	lanual
03	Dec 20, 11	Yashima	u Ueda	Maki	Refer to Rev	vision Record	on page 2	2.	Drawing			
02	Aug. 2, 10	K.Okada	a A.Miyoshi	I.Fujioka	Refer to Rev	Refer to Revision Record on page 2.				P1PA03607	7 — E	300X/6
Rev.	DATE	DESIG.	CHECK	APPR.	DESCRIPTIC	DN		_	DE		Daga	152 /
DES	SIG. July 15	5,2010	K.Okada	CHECK	A.Miyoshi		APPR.	I.Fujioka	F I		гауе	/152