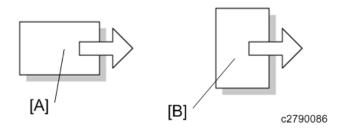
Internal Shift Tray SH3070 Machine Code: D691 Field Service Manual

Symbols, Abbreviations and Trademarks

Symbols, Abbreviations

This manual uses several symbols and abbreviations. The meaning of those symbols and abbreviations are as follows:

Symbol	What it means
W	Clip ring
OPP	Screw
\$	Connector
	Clamp
6 20	E-ring
\$\$\$	Flat Flexible Cable
0	Timing Belt
SEF	Short Edge Feed [A]
LEF	Long Edge Feed [B]
K	Black
С	Cyan
М	Magenta
Y	Yellow
B/W, BW	Black and White
FC	Full color



Trademarks

Adobe, Acrobat, PageMaker, PostScript, and PostScript 3 are either registered trademarks or trademarks of Adobe Systems Incorporated in the United States and/or other countries.

The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by Ricoh Company, Ltd. is under license.

Firefox and Thunderbird are registered trademarks of the Mozilla Foundation.

Google, Android, and Chrome are trademarks of Google Inc.

iOS® is a registered trademark or trademark of Cisco Systems, Inc. and/or its affiliates in the United States and certain other countries.

Java is a registered trademark of Oracle and/or its affiliates.

JAWS® is a registered trademark of Freedom Scientific, Inc., St. Petersburg, Florida and/or other countries.

Kerberos is a trademark of the Massachusetts Institute of Technology (MIT).

Linux is a registered trademark of Linus Torvalds.

Macintosh, OS X, Bonjour, Safari, and TrueType are trademarks of Apple Inc., registered in the U.S. and other countries.

Microsoft, Windows, Windows Server, Windows Vista, Internet Explorer, and Outlook are either registered trademarks or trademarks of Microsoft Corp. in the United States and/or other countries.

PictBridge is a trademark.

QR Code is a registered trademark of DENSO WAVE INCORPORATED in Japan and in other countries.

"Red Hat" is a registered trademark of Red Hat, Inc.

The SD and SD logo are trademarks of SD-3C, LLC.

UNIX is a registered trademark of The Open Group.

UPnP is a trademark of UPnP Implementers Corporation.



This product includes RSA BSAFE® Cryptographic software of EMC Corporation. RSA and BSAFE are registered trademarks or trademarks of EMC Corporation in the United States and other countries.

The proper names of Internet Explorer 6, 7, and 8 are as follows:

- Microsoft® Internet Explorer® 6
- Windows® Internet Explorer® 7
- Windows® Internet Explorer® 8

The proper names of the Windows operating systems are as follows:

- The product names of Windows Vista are as follows:
 - Microsoft® Windows Vista® Ultimate
 - Microsoft® Windows Vista® Business
 - Microsoft® Windows Vista® Home Premium
 - Microsoft® Windows Vista® Home Basic
 - Microsoft® Windows Vista® Enterprise
- The product names of Windows 7 are as follows:
 - Microsoft® Windows® 7 Home Premium
 - Microsoft® Windows® 7 Professional
 - Microsoft® Windows® 7 Ultimate
 - Microsoft® Windows® 7 Enterprise
- The product names of Windows 8 are as follows:
 - Microsoft® Windows® 8
 - Microsoft® Windows® 8 Pro
 - Microsoft® Windows® 8 Enterprise
- The product names of Windows 8.1 are as follows:
 - Microsoft® Windows® 8.1
 - Microsoft® Windows® 8.1 Pro
 - Microsoft® Windows® 8.1 Enterprise
- The product names of Windows 10 are as follows:

Microsoft® Windows® 10 Home Premium

Microsoft® Windows® 10 Pro

Microsoft® Windows® 10 Enterprise

Microsoft® Windows® 10 Education

• The product names of Windows Server 2003 are as follows:

Microsoft® Windows Server® 2003 Standard Edition

Microsoft® Windows Server® 2003 Enterprise Edition

• The product names of Windows Server 2003 R2 are as follows:

Microsoft® Windows Server® 2003 R2 Standard Edition

Microsoft® Windows Server® 2003 R2 Enterprise Edition

• The product names of Windows Server 2008 are as follows:

Microsoft® Windows Server® 2008 Standard

Microsoft® Windows Server® 2008 Enterprise

• The product names of Windows Server 2008 R2 are as follows:

Microsoft® Windows Server® 2008 R2 Standard

Microsoft® Windows Server® 2008 R2 Enterprise

• The product names of Windows Server 2012 are as follows:

Microsoft® Windows Server® 2012 Foundation

Microsoft® Windows Server® 2012 Essentials

Microsoft® Windows Server® 2012 Standard

• The product names of Windows Server 2012 R2 are as follows:

Microsoft® Windows Server® 2012 R2 Foundation

Microsoft® Windows Server® 2012 R2 Essentials

Microsoft® Windows Server® 2012 R2 Standard

Other product names used herein are for identification purposes only and might be trademarks of their respective companies. We disclaim any and all rights to those marks.

Microsoft product screen shots reprinted with permission from Microsoft Corporation.

TABLE OF CONTENTS

Symbols, Abbreviations and Trademarks	1
Symbols, Abbreviations	1
Trademarks	2
1. Replacement and Adjustment	
Controller Board	
Shift Motor	9
2. Detailed Descriptions	
Internal Shift Tray SH3070 (D691)	
Parts Layout	11
Mechanism	12
Upper tray drive mechanism	12
Position detection	12

1. Replacement and Adjustment

Controller Board

1. Shift tray [A]



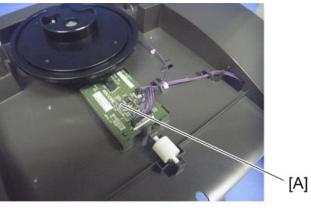
d1462810

2. Upper tray [A]



d1462811

3. Controller board [A]



d1462812

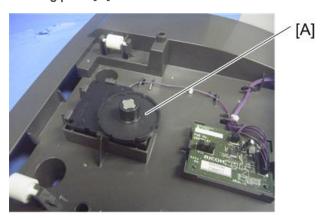
Shift Motor

- 1. Upper tray (page 7)
- 2. Interlocking plate [A]



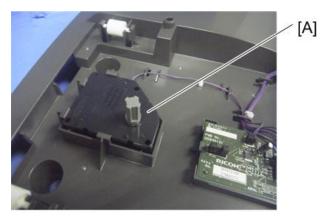
d1462813

3. Rotating plate [A]



d1462814

4. Shift motor [A] (S×1)



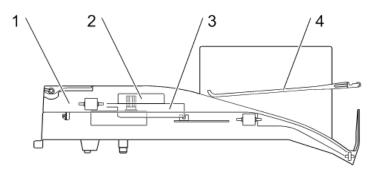
d1462815

1

2. Detailed Descriptions

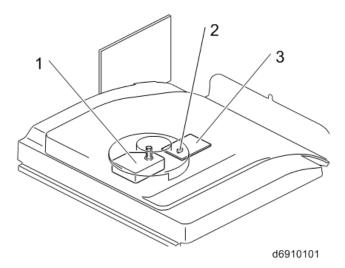
Internal Shift Tray SH3070 (D691)

Parts Layout



d6910001

No.	Description	No.	Description
1	Upper tray	3	Rotating plate
2	Interlocking plate	4	Feeler



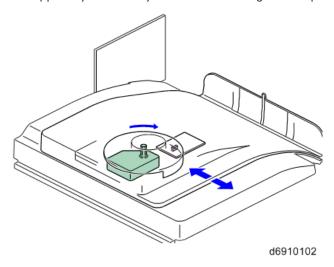
No.	Description	No.	Description
1	Shift motor	3	Controller board

No.	Description	No.	Description
2	Position sensor		

Mechanism

Upper tray drive mechanism

The upper tray is moved by the shift motor through a rotor plate and interlocking plate.



Position detection

The position sensor is switched ON (unblocked)/OFF (blocked) by an actuator on the rotating plate.