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You can read the recommendations in the user guide, the technical guide or the installation guide for CANON IR3570. You'll find the answers to all your questions on the CANON IR3570 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

**User manual CANON IR3570**  
**User guide CANON IR3570**  
**Operating instructions CANON IR3570**  
**Instructions for use CANON IR3570**  
**Instruction manual CANON IR3570**

Service Manual

**iR4570/3570, 2870/2270 Series**

**Canon**

Oct 8 2004  
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**Manual abstract:**

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Download Free Service Manual And Resetter Printer at <http://printer1.blogspot.com> Introduction Symbols Used This documentation uses the following symbols to indicate special information: Symbol Description Indicates an item of a non-specific nature, possibly classified as Note, Caution, or Warning.

Indicates an item requiring care to avoid electric shocks. Indicates an item requiring care to avoid combustion (fire). Indicates an item prohibiting disassembly to avoid electric shocks or problems. Indicates an item requiring disconnection of the power plug from the electric outlet. Indicates an item intended to provide notes assisting the understanding of the topic in question.

Memo Indicates an item of reference assisting the understanding of the topic in question. REF. Provides a description of a service mode. Provides a description of the nature of an error indication. Download Free Service Manual And Resetter Printer at <http://printer1.blogspot.com> Introduction

The following rules apply throughout this Service Manual: 1. Each chapter contains sections explaining the purpose of specific functions and the relationship between electrical and mechanical systems with reference to the timing of operation. @@2. @@@@The descriptions in this Service Manual are subject to change without notice for product improvement or other purposes, and major changes will be communicated in the form of Service Information bulletins. All service persons are expected to have a good understanding of the contents of this Service Manual and all relevant Service Information bulletins and be able to identify and isolate faults in the machine." Download Free Service Manual And Resetter Printer at

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*..... 7- 4 7.2.1Image Formation Process (outline) ..*

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*..... 7- 4 7.2.2Image Formation Process (image formation) .*

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... 7- 5 7.3 Basic Sequence.....

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7- 6 7.3.1Sequence of Operation (initial rotation) .....

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3.2Sequence of Operation (initial rotation) ....

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..... 7- 6 7.3.

3Sequence of Operation (copying).....

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.... 7- 9 7.4 Image Stabilization Control.....

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7- 10 7.4.1 Overview.....

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7- 10 7.4.2 APVC Control .....

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*7- 10 7.4.3ATVC Control .....*

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*.. 7- 11 7.5 Drum Unit ..*

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*7- 12 7.5.1 Charging Mechanism ...*

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..... 7- 12 7.5.1.1 Controlling the Primary Charging Bias ..

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. 7- 12 7.5.1.2 Primary Charging Roller Cleaning Mechanism.....

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..... 7- 12 7.6 Drum Cleaner Unit ....

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..... 7- 14 7.

6.1 Photosensitive Drum Cleaning ....

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*7- 14 7.7 Developing Unit...*

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*.... 7- 15 7.7.1Controlling the Developing Bias ....*

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*..... 7- 15 7.8 Toner Container ..*

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*. 7- 16 7.8.1 Overview.....*

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*. 7- 16 7.8.2 Route of Toner Supply.....*

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*7- 17 7.8.3 Controlling the Drive of the Toner Cartridge .....*

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..... 7- 20 7.9 Transfer Unit..

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..... 7- 21 7.9.1 Outline of the Transfer Unit ..

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..... 7- 21 7.9.1.1 Outline .

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*.. 7- 21 7.9.2 Controlling the Transfer Bias .....*

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*7- 21 7.9.2.1 Transfer Roller Bias Control.....*

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*... 7- 21 7.9.3 Cleaning .....*

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... 7- 22 7.9.3.1 *Transfer Roller Cleaning Mechanism...*

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.. 7- 22 7.9.4 *Separation Mechanism .....*

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7- 22 7.9.4.1 *Controlling the Static Eliminator Bias..*

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... 7- 22 7.10 *Transfer Mechanism .*

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..... 7- 24 7.12 Parts Replacement Procedure .

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12.1 Pre-Exposure Lamp.....

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7- 26 7.12.1.1 Removing the Front Cover Unit ..

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..... 7- 26 7.12.1.2 Removing the Waste Toner Case..

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12.1.3 Removing the Toner Cartridge ...

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..... 7- 26 7.12.1.4 Removing the Drum Unit .

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. 7- 27 7.12.1.5 Removing the Developing Assembly .....

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*7- 37 7.12.3.8 Removing the Pre-Exposure Lamp .....*

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*7- 37 7.12.3.9 Removing the Left Cover ..*

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*..... 7- 38 7.12.3.10 Removing the Laser Unit..*

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*.. 7- 40 7.12.4.3 Removing the Toner Cartridge.....*

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*12.4.4 Removing the Drum Unit .....*

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*12.4.5 Removing the Developing Assembly...*

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*. 7- 43 7.12.4.6 Removing the Upper Tray .....*

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*7- 44 7.12.4.7 Removing the Toner Cartridge Cover ..*  
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*. 7- 44 7.12.4.8 Removing the Pre-Exposure Lamp .....*

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*. 7- 45 7.12.4.9 Removing the Left Cover .....*

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*..... 7- 45 7.12.4.10 Removing the Laser Unit.*

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..... 7- 50 7.12.6 Developing Cylinder .

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. 7- 52 7.12.6.1 Removing the Developing Cylinder.

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..... 7- 52 7.12.7 Transfer Charging Roller ...

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..... 7- 54 7.12.7.

1 Removing the Transfer Roller .....

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..... 7- 55 7.12.9 Toner Level Sensor .

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..... 7- 56 7.12.  
9.1 Removing the Front Cover Unit ....

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... 7- 56 7.12.9.2 Removing the Waste Toner Case ....

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..... 7- 56 7.12.9.3 Removing the Toner Cartridge.

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. 7- 63 7.12.10.2 Removing the Waste Toner Case.



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... 7- 64 7.12.

*10.3 Removing the Toner Cartridge ....*

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..... 7- 64 7.12.

*10.4 Removing the Drum Unit .....*

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*. 7- 65 7.12.10.5 Removing the Developing Assembly .....*

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..... 7- 71 7.12.11.

*1 Removing the Static Eliminator.....*

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*. 7- 71 Chapter 8 Pickup/Feeding System 8.1 Construction...*

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... 8- 1 8.1.

*1 Specifications, Controls, and Functions .....*

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..... 8- 1 8.1.2 *Division into Blocks* .

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. 8- 2 8.1.3 *Division into Blocks* ..

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..... 8- 3 8.1.4 *Arrangement of Rollers* ...

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..... 8- 17 8.2.1 *Basic Sequence* ..

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..... 8- 17 8.2.2 *Increase in Speed* ...

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.. 8- 17 8.2.3 *Increase in Speed* .

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..... 8- 20 8.

*3 Detecting Jams.....*

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*..... 8- 23 8.3.1 Delivery Jams ...*

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*.. 8- 23 8.3.1.*

*1 Delay Jam Outside the Cassette Pickup Assembly.....*

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*8- 25 8.3.3 Other Jams...*

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*.. 8- 25 Download Free Service Manual And Resetter Printer at <http://printer1.blogspot.com> Contents 8.  
3.3.1 Door Open Jam...*

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*..... 8- 25 8.4 Cassette Pick-Up Unit ..*

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*. 8- 26 8.4.1 Overview ..*

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*8- 26 8.4.2 Basic Sequence ...*

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..... 8- 27 8.

*4.3 Identifying the Paper Size .....*

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. 8- 34 8.5.1 *Overview ..*

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8- 34 8.5.2 *Basic Sequence of Operation ...*

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... 8- 35 8.5. *3Identifying the Paper Size .....*

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. 8- 35 8.5.4 *Paper Retaining Mechanism..*

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. 8- 36 8.6 *Registration Unit ...*

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..... 8- 38 8.6.  
*IOverview .....*

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..... 8- 38 8.6.2 *Checking Horizontal Registration* .

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..... 8- 38 8.7 *Duplex Feeding Unit* .

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7.1 *Overview* ....

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... 8- 40 8.7.  
2Overview .....

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.. 8- 41 8.7.3Sequence of Image Formation.

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..... 8- 42 8.  
7.4Sequence of Image Formation....

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..... 8- 44 8.7.5 *Flow of Paper (w/o/ delivery option) ..*

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.. 8- 45 8.7.6 *Flow of Paper (w/ delivery option) .....*

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. 8- 51 8.7.7 *Flow of Paper ..*

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.. 8- 57 8.8 *Parts Replacement Procedure.....*

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..... 8- 64 8.8.1.  
*3 Removing the Right Door .....*

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*... 8- 65 8.8.1.4 Removing the Right Cover (lower front) .....*

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..... 8- 66 8.8.1.5 Removing the Pickup Assembly 1 .

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..... 8- 66 8.  
*8.2 Pick-up Unit 2 .....*

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*8- 67 8.8.2.1 Removing the Right Cover (rear) ..*

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..... *8- 67 8.8.2.2 Removing the Right Cover (lower front) ..*

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..... *8- 67 8.8.*

*2.3 Removing the Pickup Assembly 2 .....*

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8- 67 8.8.3 Pickup Roller ..

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... 8- 68 8.8.3.1 Removing the Pickup Roller/Feed Roller/Separation Roller ....

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..... 8- 68 8.8.4 Sensor Mount ..

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..... 8- 68 8.8.

4.1 Removing the Right Cover (rear) .....

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..... 8- 68 8.8.

*4.2 Removing the Right Door ....*

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..... 8- 68 8.

*8.4.3 Removing the Right Door ...*

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*..... 8- 70 8.8.4.4 Removing the Right Cover (lower front) ..*

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..... 8- 70 8.8.

*4.5 Removing the Pickup Assembly I ....*

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. 8- 71 8.8.4.6 Removing the Pickup Assembly 2 .....

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.... 8- 71 8.8.4.7 Removing the Sensor Mounting Plate...

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.. 8- 71 8.8.4.

8 Mounting the Sensor Mounting Plate.....

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. 8- 72 8.8.5 Cassette Pick-up Motor 1.....

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..... 8- 73 8.8.5.1 *Removing the Rear Cover ..*

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. 8- 73 8.8.5.2 *Removing the Right Cover (rear) .....*

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..... 8- 73 8.8.5.3 *Removing the Pickup Motor Base.*

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*.. 9- 19 9.5.2.*  
*8 Removing the Pressure Roller .....*

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*.. 9- 20 9.5.3 Cleaning Roller .....*

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*. 9- 21 9.5.3.1 Removing the Inside Delivery Cover Unit.....*

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*.. 9- 21 9.5.3.2 Removing the Cleaning Roller .....*

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*. 9- 21 9.5.4 Fixing Film..*

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*..... 9- 22 9.5.4.*

*1 Removing the Inside Delivery Cover Unit.....*

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9- 26 9.5.5.3 *Removing the Fixing Film Cover ..*

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..... 9- 27 9.5.5.4 *Removing the Left Side Plate ..*

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. 9- 27 9.5.5.5 *Releasing the Locking Plate .*

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..... 9- 28 9.

*5.5.6 Removing the Fixing Film Unit...*

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..... 9- 29 9.5.5.

*7 Removing the Inside Delivery Sensor .....*

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*..... 9- 30 9.5.6 Fixing Film Sensor ...*

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..... 9- 31 9.

*5.6.1 Removing the Inside Delivery Cover Unit .....*

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9- 31 9.5.6.2 Removing the Grounding Plate.....

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..... 9- 31 9.

5.6.3 Removing the Fixing Film Sensor ...

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... 9- 31 Chapter 10 External and Controls 10.1 Control Panel .....

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1.1 Overview.....

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*.. 10- 1 10.1.2LCD Indication Processing.*

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*.. 10- 1 10.1.3Adjustment of the LCD Contact .*

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*..... 10- 2 10.*

*1.4Functions of the Control Panel CPU ....*

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..... 10- 3 10.2.

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..... 10- 3 10.2.2Timing of Increasing the Count ..

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10- 6 10.3.1 Overview.....

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..... 10- 6 10.3.

*22-Speed Control .....*

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*10- 6 10.3.3 Sequence of Operation...*

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*.. 10- 7 10.4 Power Supply System .....*

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*..... 10- 8 10.4.1 Power Supply ...*

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..... 10- 8 10.4.1.1 Route of Power Inside the Printer Unit ..

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..... 10- 8 10.4.

1.2 Power Supply Route in the Reader Unit.....

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. 10- 9 10.4.1.3 Timing of Supply to the Reader Unit.....

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..... 10- 13 10.4.4.1 Backup Battery .

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..... 10- 13 10.4.5 Energy-Saving Function...

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..... 10- 14 10.4.5.

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..... 10- 14 10.4.5.2 Machine as Supplied with Power.

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..... 10- 15 10.5 Parts Replacement Procedure .

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..... 10- 17 10.5.1 Main Drive Assembly .

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.. 10- 17 10.5.1.



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..... 10- 18 10.5.2.

*1 Removing the Rear Cover .....*

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.... 10- 18 10.

*5.2.2 Removing the Left Cover (lower) .....*

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..... 10- 19 10.

*5.2.3 Removing the Accessories Power Supply PCB .....*

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... 10- 19 10.5.

2.4 Removing the Main Power Supply.....

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..... 10- 20 10.5.3 Control Panel .

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10- 21 10.5.3.1 Removing the Control Panel ..

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... 10- 21 10.5.4 Control Panel LCD Unit .....

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*. 10- 26 10.5.7.1 Removing the Control Panel .*

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*5.7.2 Removing the Control Panel Base Cover.....*

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..... 10- 27 10.5.

*7.3 Removing the Control Panel Frame .....*

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*..... 10- 28 10.5.7.4 Removing the Control Panel Key Switch PCB ..*

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..... 10- 28 10.5.8 Control Panel CPU PCB ...

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..... 10- 29 10.5.8.1 Removing the Control Panel .

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..... 10- 29 10.

5.8.2 Removing the Control Panel Base Cover...

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..... 10- 30 10.5.

8.3 Removing the Controller Panel CPU PCB...

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*10- 30 10.5.9 All Night Power Supply PCB ...*

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*... 10- 30 10.5.9.1 Removing the Rear Cover ....*

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*..... 10- 30 10.5.9.2 Removing the All-Night Power Supply PCB..*

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*... 10- 31 10.5.  
10 Controller Power Supply PCB .....*

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..... 10- 31 10.5.

*10.1 Removing the Rear Cover ....*

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..... 10- 31 10.5.

*10.2 Removing the Left Cover (lower) .....*

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*..... 10- 32 10.5.10.3 Removing the Left Cover (Rear).*

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*. 10- 32 10.5.10.4 Removing the Accessories Power Supply PCB .*

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*... 10- 32 10.5.10.5 Removing the Controller Power Supply PCB ....*

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*... 10- 33 10.5.11 Option Power Supply PCB .....*

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*... 10- 33 10.5.*

*11.1 Removing the Rear Cover .....*

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*..... 10- 33 10.5.*

*11.2 Removing the Left Cover (lower) ....*

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. 10- 34 10.5.11.3 Removing the Left Cover (Rear).

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..... 10- 34 10.5.11.4 Removing the Accessories Power Supply PCB .

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... 10- 34 10.5.

12 High-Voltage PCB .....

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. 10- 35 10.5.12.1 Removing the Front Cover Unit .....

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*.. 10- 35 10.5.12.2 Removing the Waste Toner Case .....*

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*. 10- 35 10.5.12.3 Removing the Toner Cartridge.*

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*.... 10- 36 10.5.12.4 Removing the Drum Unit ...*

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*10- 37 10.5.12.5 Removing the Developing Assembly..*

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*... 10- 38 Download Free Service Manual And Resetter Printer at <http://printer1.blogspot.com> Contents 10.5.12.6 Removing the Upper Tray .....*

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*10- 39 10.5.12.7 Removing the Toner Cartridge Cover ..*

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*.. 10- 39 10.5.12.*

*8 Removing the Pre-Exposure Lamp.....*

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*.... 10- 40 10.*

*5.12.9 Removing the Left Cover .....*

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*10- 40 10.5.12.10 Removing the Laser Unit..*

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*10- 40 10.5.12.11 Removing the Hopper Assembly.....*

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..... *10- 41 10.5.*

*12.12 Removing the Right Cover (rear) ....*

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*10- 42 10.5.12.13 Removing the Right Door..*

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*10- 46 10.5.12.17 Removing the Gear .....*

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*5.12.18 Removing the High-Voltage PCB .....*

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*..... 10- 48 10.5.13 Exhaust Fan ...*

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*.... 10- 48 10.5.13.1 Removing the Heat Discharge Fan ...*

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*. 10- 48 10.5.13.2 Removing the Heat Discharge Fan .....*

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*..... 10- 49 10.5.*

*14 Motor of Main Drive Assembly .....*

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*..... 10- 50 10.5.14.1 Removing the Rear Cover.*

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*.. 10- 50 10.5.14.*

*2 Removing the Main Drive Assembly .....*

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*10- 50 10.5.14.3 Removing the Main Drive Motor .....*

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..... 10- 51 10.

*5.14.4 Removing the Main Drive Motor .....*

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..... 10- 52 10.5.

*15 Fixing Driver Motor .....*

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..... 10- 52 10.

*5.15.1 Removing the Rear Cover...*

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..... 10- 52 10.5.15.2 Removing the DC Controller PCB ..

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.. 10- 53 10.5.15.

3 Removing the Fixing Drive Motor .....

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.... 10- 54 10.

5.16 Right Door.....

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*10- 54 10.5.16.1 Removing the Right Cover (rear) ..*

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*.... 10- 54 10.  
5.16.2 Removing the Right Door.....*

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*10- 54 10.5.16.3 Removing the Right Door..*

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*. 10- 55 10.5.17 Circuit Braker .....*

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.. 10- 56 10.5.17.

1 Removing the Rear Cover.....

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..... 10- 56 10.5.

17.2 Removing the Circuit Breaker ....

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.. 10- 57 Chapter 11MEAP 11.1 Overview.....

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..... 11-1 11.2 MEAP Counter .....

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... 11-2 11.3 Construction of the MEAP Platform .

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..... 11-4 Chapter 12 Maintenance and Inspection 12.1 Periodically Replaced Parts .

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.. 12- 1 12.1.1Overview.

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12- 1 12.1.2Reader Unit ...

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.... 12- 1 12.1.3Printer Unit ....

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..... 12- 1 12.2 Durables and Consumables.

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... 12- 2 12.2.1 Overview.....

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. 12- 2 12.2.2 Reader Unit .....

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..... 12- 2 12.2.3Printer Unit ...

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..... 12- 5 12.

3.1Scheduled Servicing for the Reader Unit ....

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.. 12- 5 12.3.2Scheduled Servicing for the Printer Unit .

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..... 12- 5 12.3.3Scheduled Servicing Basic Procedures ...

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..... 12- 8 12.3.4Points to Note About the Scheduled Servicing ..

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... 12- 10 12.4 Cleaning.....

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..... 12- 12 12.4.1Cleaning the Transfer/Feed Guide ...

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12- 12 12.4.2Cleaning the Developing Assembly Spacer, Feed Guide, Dust-Blocking Glass, and Fixing Inlet Guide. 1212 12.4.3Cleaning the Film Bias Static Eliminator....

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12- 21 12.4.4Cleaning the Film Bias Static Eliminator.....

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..... 12- 29 Chapter 13Standards and Adjustments 13.1 Image Adjustments...

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*... 13- 1 13.1.1Standards for Image Position .....*

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*1.2Adjusting the Image Position .....*

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*13- 1 13.1.3Cassette...*

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*13- 3 13.1.4Manual Feed Tray ...*

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*..... 13- 5 13.1.*

*5Side Paper Deck .....*

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*2 Scanning System .....*

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.... 13- 7 13.2.1After Replacement of the CIS ....

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2.2After Replacing the Reader Controller PCB or Initializing the RAM .....

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*5.1After Replacing the HDD.....*

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*5.2After Replacing the DC Controller PCB .....*

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*6.1Adjusting the Horizontal Registration When Replacing the Cassette.....*

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*3Adjusting the Manual Feed Pickup Horizontal Registration.....*

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*1.1 Uneven Density....*

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*.... 14- 4 14.2.1.2 Partially Blank/Streaked ...*

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. 14- 6 14.2.1.3 Smudged/Streaked .....

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.. 14- 22 14.3.3.

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.... 15- 1 15.  
1.1 Error Code .



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<http://yourpdfguides.com/dref/4255426>

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2 Error Code Details .....

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.. 15- 4 15.2.1 Error Code Details .....

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. 15- 33 15.3.2 Error Codes ..

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..... 15- 35 15.4 Jam Code .

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..... 15- 44 15.4.

1Jam Cover (printer unit).....

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15- 46 15.5 Alarm Code....

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..... 15- 49 15.5.1Alarm Code.

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*6 Finisher/Saddle Finisher Error Codes.....*

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*. 15- 50 15.6.1 Error Code in Detail (finisher, puncher)..*

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*.... 15- 50 15.7 DADF Error Codes .....*

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.. 16- 1 16.1.2 Starting Service Mode and Making Selections .

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. 16- 2 16.1.3 Ending Service Mode ..

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..... 16- 3 16.  
1.4 Back-Up.....

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... 16- 3 16.1.  
5Initial Screen.....

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16- 3 16.1.62nd/3rd Item Screen ...

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16- 4 16.1.74th Item Screen.....

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..... 16- 4 16.2 DISPLAYStatus Display Mode .

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16- 6 16.2.1 COPIER .....

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..... 16- 6 16.2.

1.1 Copier List .....

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*. 16- 6 16.2.2 FEEDER ..*

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*. 16- 13 16.2.2.1 Feeder List .*

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*..... 16- 13 16.3 I/O I/O Display Mode ..*

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*.. 16- 14 16.3.1Outline .....*

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*. 16- 14 16.3.2<DC-CON> .....*

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*.. 16- 15 16.3.3<R-CON> .....*

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. 16- 19 16.3.4<FEEDER> ..

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..... 16- 21 16.3.5<SORTER> .

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..... 16- 22 16.4 ADJUSTAdjustment Mode .

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16- 34 16.4.1.1 Copier List .....

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*. 16- 44 16.4.2.1 FEEDER List.....*

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.... 17-2 Download Free Service Manual And Resetter Printer at <http://printer1.blogspot.com> Chapter 1 Introduction Download Free Service Manual And Resetter Printer at <http://printer1.blogspot.com> Download Free Service Manual And Resetter Printer at <http://printer1.blogspot.com> Contents Contents 1.1 System Construction....

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*1-1 1.1.1 Overview of the System with a Delivery Accessory.....*

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*..... 1-1 1.1.2 Delivery Accessory System Configuration 1 ...*

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*. 1-1 1.1.3 Delivery Accessory System Configuration 2 .....*

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*..... 1-3 1.1.4 Delivery Accessory System Configuration 3 .*

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*5 Pickup/Original Handling Accessories System Configuration .....*

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*.. 1-6 1.1.6 Reader Heater System Configuration.....*

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*1-8 1.1.7 Cassette Heater System Configuration 1...*

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*... 1-9 1.1.8 Cassette Heater System Configuration 2.....*

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*.... 1-10 1.1.9 Side Deck Heater System Configuration....*

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*1-11 1.1.10 Printing/Transmitting Accessories System Configuration ...*

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*1-15 1.2.1 Names of Parts...*

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*2.1 Turning On the Power Switch .....*

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*2.2.2 When Turning Off the Main Power Switch ...*

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*2.2.3 Control Panel ...*

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... 1-23 1.2.3.2 Setting the Time ....

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*1-35 1.2.3.10 Address Book Settings .....*

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*1-37 1.2.4 Maintenance by the User .....*

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*..... 1-39 1.2.4.1 Cleaning..*

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*1-39 1.2.4.2 Inspection .....*

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*.. 1-40 1.2.5 Safety.*

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6 Product Specifications .....

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1 Product Specifications .....

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1-44 1.2.7 Function List.....

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*2.7.1 Printing Speed ...*

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*2.7.2 Printing Speed .....*

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1.4 Delivery Accessory System Configuration 3 iR2270 / iR2870 / iR3570 / iR4570 The following shows a typical system configuration of this type: Remarks: The 3 Way Unit-A1 comes as standard with the following models: 120V: all model 230V: iR4570, iR3570 0006-6234 1-5 Chapter 1 [3] [3a] [2] [2a] [1a] [1] F-1-3 T-1-9 [1] Inner 2-Way Tray-D1 [2] 3 Way Unit-A1 (powered by the printer unit, not requiring the Accessories Power Supply-P2) [3] Copy Tray-J1 [1a] Installation Procedure - Installation of the Inner 2-Way Tray-D1 [2a] Installation Procedure - Installation of the 3 Way Unit-A1 [3a] Installation Procedure Installation of the Copy Tray-J1 1.

1.5 Pickup/Original Handling Accessories System Configuration iR2270 / iR2870 / iR3570 / iR4570 The following shows a typical system configuration: 0006-6254 1-6 [2] [10] [1] [10a] [1a] [5] [3] [9a] [9] [4a] [4] [8] [6a] [8a] [7] [6] F-1-4 T-1-10 [1] DADF-N1 [1a] Installation Procedure - Installation of the DADF-N1 [2] Platen Cover Type-H [3] Original Holder-J1 [3a] Installation Procedure - Installation of the Original Holder-J1 [4] Side Paper Deck-Q1 [4a] Installation Procedure - Installation of the Side Paper Deck-Q1 [5] Card Reader-C1, Card Reader Mounting Kit-B1 Chapter 1 [6] 2-Cassette Pedestal-Y2 [6a] Installation Procedure - Installation of the 2-Cassette Pedestal-Y2 [7] Envelope Cassette-C1 (100V) [8] Envelope Cassette Attachment-C1 (115/200V) [8a] Installation Procedure - Installation of the Envelope Cassette Attachment-C1 [9] Accessories Power Supply-P2 (required when installing the Side Paper Deck Q1 [4]; standard with 120/230V model) [10] DADF Handle-A1 [9a] Installation Procedure - Installation of the Accessories Power Supply-P2 [10a] Installation Procedure - Installation of the DADF Handle-A1 1.1.6 Reader Heater System Configuration iR2270 / iR2870 / iR3570 / iR4570 The following shows a typical system configuration: [1] 0006-6260 [2] [2a] F-1-5 T-1-11 [1] Reader Heater Unit-B1 (A Heater PCB-C1 is needed for operation) [2] Heater PCB-C1 1-8 Chapter 1 [2a] Installation Procedure - Installation of the Heater PCB-C1 - Installation of the Cassette Heater Unit-29 (installation to the printer unit) - Installation of the Reader Heater Unit-B1 1.1.

7 Cassette Heater System Configuration 1 iR2270 / iR2870 / iR3570 / iR4570 The following shows a typical system configuration: 0006-6261 [1] [2] [2a] F-1-6 T-1-12 [1] Cassette Heater Unit-29 (installation to the printer unit) (A Heater PCB-C1 is needed for operation.) [2] Heater PCB-C1 [2a] Installation Procedure - Installation of the Heater PCB-C1 - Installation of the Cassette Heater Unit-29 (installation to the printer unit) - Installation to the Reader Heater Unit-B1 1-9 Chapter 1 1.1.8 Cassette Heater System Configuration 2 iR2270 / iR2870 / iR3570 / iR4570 The following shows a typical system configuration: 0006-6262 [1] [1a] [2] [3] [3a] F-1-7 T-1-13 [1] Heater PCB-C1 [1a] Installation Procedure - Installation of the Heater PCB-C1 - Installation of the Cassette Heater Unit-29 (installation to the printer unit) - Installation of the Reader Heater Unit-B1 [2] Cassette Heater Unit-29 (installation to the cassette pedestal) (Its operation requires the installation of the Heater PCB-C1 and the Cassette Heater Mounting Kit-B1.) [3] Cassette Heater Mounting Kit-B1 [3a] Installation Procedure - Installation of the Cassette Heater Mounting Kit-B1 - Installation of the Cassette Heater Unit-25 - Installation of the Cassette Heater-29 (installation to the cassette pedestal) 1-10 Chapter 1 1.1.9 Side Deck Heater System Configuration iR2270 / iR2870 / iR3570 / iR4570 The following shows a typical System configuration: 0006-6264 [1] [1a] [2] [2a] [3] [3a] F-1-8 T-1-14 [1] Heater PCB-C1 [1a] Installation Procedure - Installation of the Heater PCB-C1 - Installation of the Cassette Heater Unit-29 (installation to the printer unit) - Installation of the Reader Heater Unit-B1 [2] Cassette Heater Unit-25 (Its operation requires the installation of the Heater PCB-C1 and the Cassette Heater Mounting Kit-B1.) [2a] Installation Procedure - Installation of the Cassette Heater Unit-29 \*Not used for mounting this unit to this model. [3] Cassette Heater Mounting Kit-B1 1-11 Chapter 1 [3a] Installation Procedure - Installation of the Cassette Heater Mounting Kit-B1 - Installation of the Cassette Heater Unit-25 - Installation of the Cassette Heater Unit-29 (installation to the cassette pedestal) 1.1.

10 Printing/Transmitting Accessories System Configuration iR2270 / iR2870 / iR3570 / iR4570 The following is a diagram of the system configuration: 0006-6265 [6] [1] [2] [3] [5] [4] [8] [7] [10] [11] [12] [13] [9] F-1-9 [1] UFR II Printer Kit-E3 (P BootROM) [2] Printer Kit-E2 (H BootROM: for 230 V model) [3] Multi-PDL Printer Kit-E1 (N BootROM) [4] Expansion Bus-B1 [5] USB Application Interface Board-D1 [6] iR256MB Expansion RAM-B1 (standard with 120V model) [7] iR Security Kit-A2 (License) [8] Super G3 Fax Board-Q1 1-12 Chapter 1 [9] Multi FAX Board-D1 (for 120 V model) [10] Univrsal Send Kit -B1 (License) [11] Universal Send PDF Enhancement Kit-B1 (License: for 120 V model) [12] Universal Send PDF Encryption Kit-B1 (License: for 230 V model) [13] Universal Send Searchable PDF Kit-A1 (License: for 230 V model) 1.1.11 List of Print Transmission Optional Functions iR2270 / iR2870 / iR3570 / iR4570 - List of Print Transmission Optional Functions (120-V model) 0006-6266 The following is a brief explanation of the functions expected of the accessories; for details, see the chapters that follow: T-1-15 UFR II print function UFR II/PCL/PS print function Send function Fax function (1-line) Fax function (2-line) MEAP application USB connection function Security function (HDD initialization+ encryption) Encryption PDF function + searchable PDF function ==> ==> ==> ==> ==> ==> Univrsal Send Kit -B1 Super G3 Fax Board-Q1 Multi FAX Board-D1 USB Application Interface Board-D1 Expansion Bus-B1 USB Application Interface Board-D1 Expansion Bus-B1 iR Security Kit-A2 Univrsal Send Kit -B1 Universal Send PDF Enhancement Kit-B1 ==> ==> UFR II Printer Kit-E3 (P BootROM) Multi-PDL Printer Kit-E1 (N BootROM) - List of Print Transmission Optional Functions (230-V model) The following is a brief explanation of the functions expected of the accessories; for details, see the chapters that follow: T-1-16 UFR II print function ==> UFR II Printer Kit-E3 (P BootROM) 1-13 UFR II/PCL print function UFR II/PCL/PS print function Send function Fax function (1-line) MEAP function (C boot) ==> Printer Kit-E2 (H BootROM) iR256MB Expansion RAM-B1 ==> Multi-PDL Printer Kit-E1 (N BootROM) iR256MB Expansion RAM-B1 ==> ==> ==> Univrsal Send Kit -B1 Super G3 Fax Board-Q1 no need for memory expansion MEAP authentication, MEAP application operation are both possible MEAP function (P boot) ==> -When you want to enable only use of MEAP authentication no need for memory expansion If MEAP application is installed, the device will not operate (E604-0001 is displayed) -When you want to enable use of MEAP authentication and MEAP application operation need for iR256 MB Expansion RAM-B1 installed MEAP function (H boot/N boot) ==> memory expansion needed without memory expansion, the device will not operate (E744 is displayed) MEAP application USB connection function Security function (HDD initialization+ encryption) ==> USB Application Interface Board-D1 Expansion Bus-B1 ==> USB Application Interface Board-D1 Expansion Bus-B1 iR Security Kit-A2 iR256MB Expansion RAM-B1 Encryption PDF function ==> Univrsal Send Kit -B1 Universal Send PDF Encryption Kit-B1 Searchable PDF function ==> Univrsal Send Kit -B1 Universal Send Searchable PDF Kit-A1 iR256MB Expansion RAM-B1 Encryption PDF function + Searchable PDF function ==> Univrsal Send Kit -B1 Universal Send PDF Encryption Kit-B1 Universal Send Searchable PDF Kit-A1 iR256MB Expansion RAM-B1 Chapter 1 1.



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2 Product Specifications 1.2.1 Names of Parts 1.2.1.1 Names of Parts iR2270 / iR2870 / iR3570 / iR4570 0007-2860 [2] [3] [1] [4] [18] [17] [16] [15] [14] [5] [6] [7] [8] [9] [10] [11] [13] [12] F-1-10 [1] ADF reading glass retainer [2] DADF [3] Reader cover (front) [4] Control panel [5] Support cover (right) [6] Support cover [7] Delivery tray right cover [8] Delivery tray [9] Inside right cover [10] Front cover unit [11] Cassette 1 [12] Cassette 2 [13] Left cover (lower) [14] Left cover [15] Inside base cover [16] Left cover (rear) [17] Delivery tray rear cover (lower) [18] Delivery tray rear cover 1-15 Chapter 1 [19] [20] [21] [29] [28] [27] [22] [23] [26] [25] [24] F-1-11 [19] Reader over (right) [20] Copyboard glass [21] Reader cover (rear) [22] Face over (iR3570,4570) [23] Rear cover [24] Right cover (rear) [25] Manual feed pickup tray [26] Right cover (lower front) [27] Right door unit [28] Delivery cover [29] Right cover (upper) 1.2.

1.2 Cross Section iR2270 / iR2870 / iR3570 / iR4570 iR2270 / iR2870 model 0007-9223 1-16 Chapter 1 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [29] [12] [13] [28] [14] [15] [16] [17] [18] [19] [20] [21] [22] [23] [24] [27] [26] [25] F-1-12 iR3570 / iR4570 model 1-17 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [29] [12] [13] [28] [14] [15] [16] [17] [18] [19] [20] [21] [22] [23] [24] [27] [26] [25] F-1-13 T-1-17 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] CIS unit ADF reading glass Copyboard glass Toner bottle Drum unit Drum cleaner assembly Delivery roller Fixing outlet roller Fixing film unit Pressure roller [16] [17] [18] [19] [20] [21] [22] [23] [24] [25] Manual feed pickup roller Pickup roller (cassette 1) Vertical path roller 1 Feed roller (cassette 1) Separation roller (cassette 1) Vertical path roller 2 Manual roller (cassette 2) Separation roller (cassette 2) Pickup roller (cassette 2) Primary charging roller Chapter 1 [11] [12] [13] [14] [15] Duplex feed roller 1 Photosensitive drum Duplex feed roller 2 Transfer roller Registration roller [26] [27] [28] [29] Developing assembly Laser scanner unit Dust-blocking sheet Sub hopper assembly 1.2.2 Using the Machine 1.2.

2.1 Turning On the Power Switch iR2270 / iR2870 / iR3570 / iR4570 The machine possesses 2 switches: main power switch and control panel power switch. Normally (i.e., other than in sleep mode), the machine goes on when its main power switch is turned on.

ON/OFF [1] 0007-3138 Reset 1 Guide 4 Additional Function 7 8 9 Start 0 Display Contrast Clear 5 6 123 Stop 2 3 Start/Memory Error Main Power [2] [3] F-1-14 [1] Control panel power switch 1-19 Chapter 1 [2] Main power lamp [3] Main power switch Do not turn off the main power while the progress bar is displayed, indicating that the HDD is being accessed. Otherwise, the HDD can suffer a fault (E602). F-1-15 1.2.2.2 When Turning Off the Main Power Switch iR2270 / iR2870 / iR3570 / iR4570 Be sure always to turn off the control panel power switch before turning off the main power switch When Using the Print Function/When Receiving or Transmitting a Fax 0007-3160 Before using the main power switch, check to be sure that the Execute/Memory lamp on the control panel is off. (Turning off the main power switch while an operation is under way can cause loss of data.) 1-20 Chapter 1 9 0 C Start/Memory Error Main Power F-1-16 At Time of Downloading Do not turn off the main power switch while downloading is under way. Otherwise, the machine may not be able to operate normally. 1-21 Chapter 1 ON / O FF F-1-17 1.

2.2.3 Control Panel iR2270 / iR2870 / iR3570 / iR4570 0007-3163 [1] [2] [3] ON/OFF 1 4 Additional Function 2 5 8 0 3 6 123 [4] [5] 7 9 Display Contrast Clear [6] Error Main Power Start/Memory [15] [14] [13] [12] [11] [10] [9] [8] [7] F-1-18 1-22 Chapter 1 T-1-18 [1] Reset key [2] Keypad [3] Control panel power switch [4] Counter Check key [5] Stop key [6] Start key [7] Main power lamp [8] Error lamp [9] Execute/Memory lamp [10] Clear key [11] ID key [12] Image contrast adjustment dial [13] User Mode key [14] Help key [15] Touch panel 1.2.3 User Mode Items 1.2.3.1 Common Settings iR2270 / iR2870 / iR3570 / iR4570 \*Factory settings. \*\*Indicated in the presence of a specific accessory. \*\*\*If iR4570, iR3570, iR2870, or iR2270, indicated in the presence of a specific accessory (if model F, standard).

T-1-19 Mode initial setup Description select initial function: \*copy/transmit/Box/MEAP use 'system status screen' as initial screen: ON/\*OFF give priority to 'device' of system status screen: \*ON/OFF select post-auto reset function set order of functions copy/transmit/Box/remote scan (or functions appearing on tab); change order by Up/Down key \*use/do not use 0007-3164 set order of function groups: group A, MEAP, group B enable/disable buzzer input sound: \*ON/OFF invalid input sound: ON/\*OFF supply alert sound: ON/\*OFF warning sound: \*ON/OFF 1-23 Mode Description job end sound: \*ON/OFF indicate paper level message inch input enable/disable auto cassette select \*ON/OFF ON/\*OFF (if US, \*on) copy/printer/Box, other (manual feed: ON/\*OFF + cassette: \*ON/ OFF; manual feed not applicable to printer) consider copy/paper type: ON/\*OFF (toggle) register envelope cassette ENV.1/ENV.2 default: env1/COM10/env2 COM10 register paper type cassette 1/cassette 2/cassette 3/cassette 4/cassette 5 (paper deck); plain paper, recycled paper, colored paper, punched paper power consumption at sleep select special tray\*\* (w/ finisher) \*low/high - w/ No. 3 tray tray A: host middle tray tray B: No. 3 tray tray A: copy/box/printer/receive/fax/other tray B: copy/box/\*printer/receive/\*fax/\*other fine setup for receive/fax tray A: receive/fax 1/fax 2 tray B: receive/fax 1/fax 2 - w/ inner tray tray A: host middle tray (lower) tray B: host middle tray (upper) tray A: \*copy/box/printer/receive/fax/other tray B: copy/box/\*printer/receive/\*fax/\*other fine setup for receive/fax tray A: receive, fax1, fax 2 tray B: receive/fax 1/\*fax 2 Mode Description - w/ inner tray + No. 3 tray tray A: host middle tray (lower) tray B: host middle tray (upper) tray C: No. 3 tray tray A: \*copy\*Box/printer/receive/fax/other tray B: copy/Box/\*printer/receive/fax/other tray C: copy/Box/printer/receive/\*fax/\*other fine setup for receive/fax tray A: receive/fax 1/fax 2 tray B: receive/fax 1/fax 2 tray C: \*receive/\*fax 1/\*fax 2 - Finisher-S1 + option tray tray A: finisher option tray tray B: finisher output tray tray A: \*copy/\*Box/printer/receive/fax/other tray B: copy/Box/\*printer/receive/\*fax/\*other fine setup for receive/fax tray A: receive/fax 1/fax 2 tray B: \*receive/\*fax 1/fax 2 - Finisher-S1 + No. 3 tray tray A: finisher output tray tray B: No. 3 tray tray A: \*copy/\*Box/\*printer/receive/fax/other tray B: copy/Box/printer/receive/\*fax/\*other fine setup for receive/fax tray A: receive/fax 1/fax 2 tray B: \*receive/\*fax 1/\*fax 2 Mode Description - Finisher-S1 + option tray + No.



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3 tray tray A: finisher optional tray tray B: finisher output tray tray C: No.

3 tray tray A: \*copy/\*Box/printer/receive/fax/other tray B: copy/Box/\*printer/receive/fax/other tray C: copy/Box/printer/receive/\*fax/\*other fine tune for fax/fax tray A: fax/fax 1/fax 2 tray B: receive/fax 1/fax 2 tray C: \*receive/\*fax 1/\*fax 2 - w/ Fisher-Q3/Q4 tray A: finisher output tray (upper) tray B: finisher output tray (lower) tray C: host middle tray tray A: \*copy/\*Box/printer/receive/fax/other tray B: copy/Box/\*printer/receive/fax/other tray C: copy/Box/printer/receive/\*fax/\*other fine tune for receive/fax tray A: fax/fax 1/fax 2 tray B: receive/fax 1/fax 2 tray C: \*receive/\*fax 1/\*fax 2 - if w/o fax, 'receive/fax'>'receive' - if fax only 'receive/fax'>'fax' - fine setup for receive/fax only if w/ fax - if fax is 1-line 'fax 1/fax 2'>'fax' \*Finisher-S1 (w/o output option), special tray items not indicated - w/o output option tray tray A: host middle tray tray A: \*copy/\*Box/\*printer/receive/\*fax/\*other (1 output target; therefore, special tray items not indicated) assign print priority copy: \*1/2/3 printer: 1/\*2/3 Mode Description Box: 1/2/\*3 receive/fax: 1/2/\*3 other: 1/2/\*3 register form for image merge register: original size; full merge; see-through merge (20, \*50, 90%); form name (up to 24 characters); form read delete delete check copy: select source of paper: print start detail info: indicate detailed information, change form name register page/stamp characters set manual feed envelope type register manual feed paper standard mode switch manual feed method register/edit: character string (up to 16) delete ON/\*OFF (if outside Japan, fixed to on) ON (select paper size/select paper type)/\*OFF indicate manual feed, cassettes 1 through 5 icons and paper type priority on speed/priority on print set standard mode for local print select paper: \*auto/cassette 1 through 5 number of prints: \*1 through 2000 sorter: sort/group/staple sort/\*shift sort/shift group/rotation sort/ rotation group/punch/Z-fold duplex: on (open to right/open to top/bottom)/\*off delete file after print: ON/\*OFF merge file: ON/\*OFF switch display language reverse screen color between-job shift\*\* put sheet between jobs\*\* put sheet between sets indicate print wait time mix papers in output tray indicate cleaning message for read area\*\*\* limit function shutdown mode reset common settings ON/\*OFF ON/\*OFF \*ON/OFF On (select source of paper)/\*OFF On (No. of sets between 10 and 9999; select source of paper)/OFF copy/Box/other (for all, ON/\*OFF) \*ON/OFF \*ON/OFF ON/\*OFF Execute key Do you want to reset?: yes/no Chapter 1 1.2.3.2 Setting the Time iR2270 / iR2870 / iR3570 / iR4570 \*Factory settings. T-1-20 Mode set time (fine) set auto sleep time auto reset time set weekly timer Description in 1-min increments (using +/-) 10, 15, 20, 30, 40, 50 min; \*1 hr; 90 min, 2, 3, 4 hr 0: disable; 1, \*2, ..., 9 min (in 1-min increments) 00:00 to 23:59 (in 1-min increments); everyday from Sun to Sat 0007-3165 1.2.

3.3 Adjustments and Cleaning iR2270 / iR2870 / iR3570 / iR4570 \*Factory settings. \*\*Indicated in the presence of a specific accessory. 0007-3166 \*\*\*If iR4570, iR3570, iR2870, or iR2270, indicated in the presence of a specific accessory (if model F, standard). T-1-21 Mode zoom fine adjust center bind staple edging\*\* (w/ saddle finisher) center bind position change\*\* (w/ saddle finisher) density correction page print/number of set prints adjust stamp position clean feeder\*\*\* size: A3, 11x17/B4/LGL/A4R, LTRR position: -2.0 mm to +2.0 mm (in 0.35-mm increments)/\*0 mm copy/Box, transmit: 9 sets each (at time of shipment, set to '5') X: -8 mm to +8 mm (in 1-mm increments)/\*0 mm Y: -8 mm to +8 mm (in 1-mm increment)/\*0 mm Start key Description XY, individually: -1.0T to +1.0% (in 0.

1% increments)/\*0% Start key 1.2.3.4 Report Output iR2270 / iR2870 / iR3570 / iR4570 \*Factory settings. 0007-3167 \*\*\*If iR4570, iR3570, iR2870, or iR2270, indicated in the presence of a specific accessory (if model F, standard).

1-28 Chapter 1 T-1-22 Mode transmit (setup)\*\*\* Description transmission results report: \*only if error/ON/OFF show transmission original: \*ON/OFF show transmission original for coded PDF: ON/\*OFF communication control report print automatically at 100 communications: print at specified time: ON/\*OFF set time: \*00:00 to 23:59 separate transmission and reception: ON/\*OFF (toggle) fax (settings)\*\*\* fax transmission result report: \*only if error/ON/OFF show transmission report: \*ON/OFF fax communication control report print automatically every 40 communications: print at specified time: ON/\*OFF set time: \*00:00 to 23:59 separate transmission and reception: ON/\*OFF (toggle) fax reception result report: only if error/ON/\*OFF fax Box reception report: list print (transmission)\*\*\* list print (fax)\*\*\* list print (network) address book list: list print user data list: Do you want to print the user data list? yes/no user data list: Do you want to print the user data list? yes/no user list: Do you want to print the user data list? yes/no configuration page, font list PS: status print, font list LIPS/emulation: status print, font list, LIPS utility (status print, overlay list, overlay list, font list, micro list, form list, color sample), N201 utility (status print, overlay print), ESCP utility (status print, overlay print), i5577 utility (status print, overlay list), HP-GL utility (status print, sample print) 1.2.3.5 System Control Settings iR2270 / iR2870 / iR3570 / iR4570 \*Factory settings. \*\*Indicated in the presence of a specific accessory. 0007-3168 1-29 Chapter 1 \*\*\*If iR5570, iR3570, iR2870, or iR2270, indicated in the presence of a specific accessory (if model F, standard). T-1-23 Mode set system administrator info Description system administrator group ID: 7 characters max system administration ID: set (7 characters) system administrator name: 32 bytes mail address: 64 bytes contact: 32 bytes comment: 32 bytes group ID control group ID control: ON/\*OFF register ID No.: register, edit, delete, limit function count control: reset, count print, all clear print without known ID: \*ON/OFF scan without known ID: \*ON/OFF set communications control abbreviation name: 40 characters; \*attached image full mode transmissions time-out: 1 to 99 hr; \*24 hr MDN/DSN reception print: ON/\*OFF notify always if error: \*ON/OFF user server route: ON/\*OFF fax setup\*\*\* transmission start speed: \*33600 bps, 14400 bps, 9600 bps, 7200 bps, 4800 bps, 2400 bps reception start speed: 33600 bps\*, 14400 bps, 9600 bps, 7200 bps, 4800 bps, 2400 bps reception password: 20 characters max. FIS switch: ON/\*OFF system Box setup system box ID No.\*\*\*: 7 characters use fax memory reception: ON/\*OFF use i-fax memory reception: ON/\*OFF memory reception start time\*\*\*: everyday/day of week/\*none e-mail/\*i-fax setup transmission data size upper limit: 0: none; 1 through 99 MB, \*3 MB 1-30 Mode Description memory reception end time\*\*\*: everyday/day of week/\*none enable/disable remote UI limit addresses\*\*\* \*ON/OFF use SSL: ON/OFF address book ID No.



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