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# Service Manual

## MF4300 Series

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**Aug 22 2008**

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## Application

This manual has been issued by Canon Inc. for qualified persons to learn technical theory, installation, maintenance, and repair of products. This manual covers all localities where the products are sold. For this reason, there may be information in this manual that does not apply to your locality.

## Corrections

This manual may contain technical inaccuracies or typographical errors due to improvements or changes in products. When changes occur in applicable products or in the contents of this manual, Canon will release technical information as the need arises. In the event of major changes in the contents of this manual over a long or short period, Canon will issue a new edition of this manual.

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## Caution

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

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# Symbols Used

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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.             |
| <br>Memo | Indicates an item intended to provide notes assisting the understanding of the topic in question. |
| <br>REF. | Indicates an item of reference assisting the understanding of the topic in question.              |
|        | Provides a description of a service mode.   |
|        | Provides a description of the nature of an error indication.                                      |

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.

In the diagrams,  represents the path of mechanical drive; where a signal name accompanies the symbol, the arrow  indicates the direction of the electric signal.

The expression "turn on the power" means flipping on the power switch, closing the front door, and closing the delivery unit door, which results in supplying the machine with power.

2. In the digital circuits, '1' is used to indicate that the voltage level of a given signal is "High", while '0' is used to indicate "Low". (The voltage value, however, differs from circuit to circuit.) In addition, the asterisk (\*) as in "DRMD\*" indicates that the DRMD signal goes on when '0'.

In practically all cases, the internal mechanisms of a microprocessor cannot be checked in the field. Therefore, the operations of the microprocessors used in the machines are not discussed: they are explained in terms of from sensors to the input of the DC controller PCB and from the output of the DC controller PCB to the loads.

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."



# Contents

## Chapter 1 Introduction

|   |       |
|---|-------|
| 1.1 Product Specifications .....  | 1- 1  |
| 1.1.1 Names of Parts.....   | 1- 1  |
| 1.1.1.1 External View .....   | 1- 1  |
| 1.1.1.2 Section View (Host Machine).....                                    | 1- 4  |
| 1.1.1.3 Section View (ADF/DADF).....  | 1- 5  |
| 1.1.1.4 Control panel.....  | 1- 6  |
| 1.1.2 Safety .....  | 1- 7  |
| 1.1.2.1 Safety of the Host Machine's Laser Mechanism .....                  | 1- 7  |
| 1.1.2.2 CDRH Regulations.....   | 1- 7  |
| 1.1.2.3 Handling of the Laser Assembly .....                                | 1- 8  |
| 1.1.2.4 Safety of the Toner .....   | 1- 8  |
| 1.1.2.5 Fire Attention.....   | 1- 8  |
| 1.1.2.6 Points no Note when Replacing / Disposing the Lithium Battery ..... | 1- 8  |
| 1.1.3 Product Specifications .....  | 1- 9  |
| 1.1.3.1 Host Machine Specifications.....                                    | 1- 9  |
| 1.1.3.2 ADF/DADF Specifications.....  | 1- 10 |
| 1.1.3.3 FAX Specifications.....   | 1- 10 |
| 1.1.4 Function List .....   | 1- 11 |
| 1.1.4.1 Scanning Range (ADF/DADF) .....                                     | 1- 11 |
| 1.1.4.2 Scanning Range (copyboard) .....                                    | 1- 11 |
| 1.1.4.3 Recording Range (Copy) .....  | 1- 12 |
| 1.1.4.4 Recording Range (Reception) .....                                   | 1- 13 |
| 1.1.4.5 Recording Range (Printer) .....                                     | 1- 13 |
| 1.1.4.6 Operation Environment of the Printer Driver.....                    | 1- 14 |
| 1.1.4.7 Network Specifications.....   | 1- 14 |

## Chapter 2 Basic Operation

|                                     |      |
|-------------------------------------|------|
| 2.1 Construction .....              | 2- 1 |
| 2.1.1 Function Configuration .....  | 2- 1 |
| 2.2 Basic Sequence.....             | 2- 1 |
| 2.2.1 Basic Operation Sequence..... | 2- 1 |

## Chapter 3 Original Exposure System

|   |      |
|---|------|
| 3.1 Basic Construction.....                               | 3- 1 |
| 3.1.1 Specifications / Control / Function List .....      | 3- 1 |
| 3.1.2 Major Components .....                              | 3- 1 |
| 3.2 Parts Replacement Procedure .....                     | 3- 3 |
| 3.2.1 Scanner Unit.....                                   | 3- 3 |
| 3.2.1.1 Preparation for Removing the Scanner Unit .....   | 3- 3 |
| 3.2.1.2 Removing the Scanner Unit .....                   | 3- 3 |
| 3.2.2 Reader Motor.....                                   | 3- 3 |
| 3.2.2.1 Preparation for Removing the Flat Bed Motor ..... | 3- 3 |
| 3.2.2.2 Removing the Flat Bed Motor .....                 | 3- 3 |
| 3.2.3 Contact Sensor.....                                 | 3- 5 |
| 3.2.3.1 Removing the Contact Sensor .....                 | 3- 5 |

## Chapter 4 Original Feeding System

|                                   |      |
|-----------------------------------|------|
| 4.1 Basic Operation .....         | 4- 1 |
| 4.1.1 Basic Operation (ADF) ..... | 4- 1 |

|   |       |
|---|-------|
| 4.1.2 Basic Operation (DADF) .....                        | 4- 2  |
| 4.1.3 Original Detection .....                            | 4- 4  |
| 4.2 Detection Jams .....                                  | 4- 5  |
| 4.2.1 Jam Detection .....                                 | 4- 5  |
| 4.3 ADF/DADF .....  | 4- 6  |
| 4.3.1 Pick-up Roller .....                                | 4- 6  |
| 4.3.1.1 Removing the ADF Pickup Roller .....              | 4- 6  |
| 4.3.1.2 Removing the DADF Pickup Roller Unit .....        | 4- 6  |
| 4.3.2 ADF Motor .....                                     | 4- 8  |
| 4.3.2.1 Preparation for Removing the ADF/DADF Motor ..... | 4- 8  |
| 4.3.2.2 Removing the ADF Motor .....                      | 4- 8  |
| 4.3.2.3 Removing the DADF Motor .....                     | 4- 9  |
| 4.3.3 Separation Pad .....                                | 4- 12 |
| 4.3.3.1 Removing the ADF Separation Pad .....             | 4- 12 |
| 4.3.3.2 Removing the DADF Separation Pad .....            | 4- 12 |

## Chapter 5 Laser Exposure

|   |      |
|---|------|
| 5.1 Overview/Configuration .....                              | 5- 1 |
| 5.1.1 Overview .....  | 5- 1 |
| 5.2 Controlling the Laser Activation Timing .....             | 5- 2 |
| 5.2.1 Laser ON / OFF Control .....                            | 5- 2 |
| 5.3 Controlling the Intensity of Laser Light .....            | 5- 2 |
| 5.3.1 Auto Photoelectric Current Control (APC) .....          | 5- 2 |
| 5.4 Controlling the Laser Scanner Motor .....                 | 5- 4 |
| 5.4.1 Overview .....  | 5- 4 |
| 5.4.2 Scanner Motor Speed Control .....                       | 5- 4 |
| 5.4.3 Detection of Fault of the Scanner Motor .....           | 5- 4 |
| 5.5 Parts Replacement Procedure .....                         | 5- 5 |
| 5.5.1 Laser/Scanner Unit .....                                | 5- 5 |
| 5.5.1.1 Preparation for Removing the Laser Scanner Unit ..... | 5- 5 |
| 5.5.1.2 Removing the Laser Scanner Unit .....                 | 5- 5 |

## Chapter 6 Image Formation

|   |      |
|---|------|
| 6.1 Overview/Configuration .....                          | 6- 1 |
| 6.1.1 Configuration .....                                 | 6- 1 |
| 6.1.2 Print Process .....                                 | 6- 1 |
| 6.2 Driving and Controlling the High-Voltage System ..... | 6- 2 |
| 6.2.1 Generation of Transfer Charging Bias .....          | 6- 2 |
| 6.3 Toner Cartridge .....                                 | 6- 3 |
| 6.3.1 Toner Level Detection .....                         | 6- 3 |
| 6.4 Parts Replacement Procedure .....                     | 6- 4 |
| 6.4.1 Transfer Charging Roller .....                      | 6- 4 |
| 6.4.1.1 Removing the Transfer Charging Roller .....       | 6- 4 |

## Chapter 7 Pickup and Feed System

|                                   |      |
|-----------------------------------|------|
| 7.1 Overview/Configuration .....  | 7- 1 |
| 7.1.1 Overview .....              | 7- 1 |
| 7.2 Other Control .....           | 7- 2 |
| 7.2.1 Overview .....              | 7- 2 |
| 7.3 Detection Jams .....          | 7- 3 |
| 7.3.1 Jam Detection Outline ..... | 7- 3 |
| 7.3.1.1 Overview .....            | 7- 3 |
| 7.3.2 Delay Jams .....            | 7- 3 |
| 7.3.2.1 Pickup Delay Jam .....    | 7- 3 |

---

|   |      |
|---|------|
| 7.3.2.2 Delivery Delay Jam .....                      | 7- 3 |
| 7.3.3 Stationary Jams .....                           | 7- 3 |
| 7.3.3.1 Pickup Stationary Jam .....                   | 7- 3 |
| 7.3.3.2 Delivery Stationary Jam .....                 | 7- 3 |
| 7.3.4 Other Jams .....                                | 7- 3 |
| 7.3.4.1 Door Open Jam.....                            | 7- 3 |
| 7.3.4.2 Wrapping Jam.....                             | 7- 4 |
| 7.3.4.3 Residual Jam at Startup.....                  | 7- 5 |
| 7.4 Duplex Unit .....                                 | 7- 6 |
| 7.4.1 Overview.....                                   | 7- 6 |
| 7.5 Parts Replacement Procedure .....                 | 7- 7 |
| 7.5.1 Main Motor.....                                 | 7- 7 |
| 7.5.1.1 Preparation for Removing Main Motor .....     | 7- 7 |
| 7.5.1.2 Removing Main Motor .....                     | 7- 7 |
| 7.5.2 Separation Pad.....                             | 7- 7 |
| 7.5.2.1 Preparation for Removing Separation Pad ..... | 7- 7 |
| 7.5.2.2 Removing Separation Pad .....                 | 7- 7 |
| 7.5.3 Pickup Roller .....                             | 7- 7 |
| 7.5.3.1 Removing Pickup Roller.....                   | 7- 7 |

## Chapter 8 Fixing System

|   |      |
|---|------|
| 8.1 Overview/Configuration .....                          | 8- 1 |
| 8.1.1 Specification/Control/Function List .....           | 8- 1 |
| 8.1.2 Overview.....                                       | 8- 1 |
| 8.2 Various Control Mechanisms.....                       | 8- 3 |
| 8.2.1 Controlling the Temperature of the Fixing Unit..... | 8- 3 |
| 8.2.1.1 Fixing Temperature Control .....                  | 8- 3 |
| 8.3 Protection Function.....                              | 8- 4 |
| 8.3.1 Protection Function.....                            | 8- 4 |
| 8.4 Parts Replacement Procedure .....                     | 8- 6 |
| 8.4.1 Fixing Unit.....                                    | 8- 6 |
| 8.4.1.1 Preparation for Removing Fixing Assembly .....    | 8- 6 |
| 8.4.1.2 Removing Fixing Assembly.....                     | 8- 6 |
| 8.4.2 Fixing Film Unit.....                               | 8- 6 |
| 8.4.2.1 Preparation for Removing Fixing Film Unit .....   | 8- 6 |
| 8.4.2.2 Removing Fixing Film Unit .....                   | 8- 7 |

## Chapter 9 External and Controls

|  |      |
|--|------|
| 9.1 Control Panel .....                              | 9- 1 |
| 9.1.1 Outline .....                                  | 9- 1 |
| 9.2 Power Supply .....                               | 9- 1 |
| 9.2.1 Power Supply .....                             | 9- 1 |
| 9.2.1.1 Power Supply Route .....                     | 9- 1 |
| 9.2.2 Protection Function.....                       | 9- 1 |
| 9.2.2.1 Protecting Function.....                     | 9- 1 |
| 9.3 Parts Replacement Procedure .....                | 9- 2 |
| 9.3.1 Front Cover.....                               | 9- 2 |
| 9.3.1.1 Removing the Front Cover.....                | 9- 2 |
| 9.3.2 Rear Cover .....                               | 9- 2 |
| 9.3.2.1 Preparation for Removing the Rear Cover..... | 9- 2 |
| 9.3.2.2 Removing the Rear Cover .....                | 9- 2 |
| 9.3.3 Right Cover.....                               | 9- 2 |
| 9.3.3.1 Removing the Right Cover.....                | 9- 2 |
| 9.3.4 Left Cover .....                               | 9- 3 |
| 9.3.4.1 Removing the Left Cover .....                | 9- 3 |
| 9.3.5 Upper Cover .....                              | 9- 4 |

|  |       |
|--|-------|
| 9.3.5.1 Preparation for Removing the Upper Cover.....        | 9- 4  |
| 9.3.5.2 Removing the Upper Cover .....                       | 9- 4  |
| 9.3.6 Cartridge Cover.....                                   | 9- 4  |
| 9.3.6.1 Preparation for Removing the Printer Cover.....      | 9- 4  |
| 9.3.6.2 Removing the Printer Cover.....                      | 9- 4  |
| 9.3.7 Operation Panel Unit.....                              | 9- 4  |
| 9.3.7.1 Removing the Control Panel Unit.....                 | 9- 4  |
| 9.3.8 SCNT Board.....  | 9- 5  |
| 9.3.8.1 Preparation for Removing the SCNT PCB.....           | 9- 5  |
| 9.3.8.2 Removing the SCNT PCB.....                           | 9- 5  |
| 9.3.8.3 Actions At Replacing the SCNT PCB.....               | 9- 5  |
| 9.3.9 DCNT Board .....                                       | 9- 6  |
| 9.3.9.1 Preparation for Removing the DCNT PCB.....           | 9- 6  |
| 9.3.9.2 Removing the DCNT PCB .....                          | 9- 6  |
| 9.3.10 Power Supply PCB.....                                 | 9- 7  |
| 9.3.10.1 Preparation for Removing the Power Supply PCB.....  | 9- 7  |
| 9.3.10.2 Removing the Power Supply PCB .....                 | 9- 7  |
| 9.3.11 High-voltage Power Supply Board .....                 | 9- 7  |
| 9.3.11.1 Preparation for Removing the High Voltage PCB ..... | 9- 7  |
| 9.3.11.2 Removing the High Voltage PCB .....                 | 9- 8  |
| <br>   |       |
| Chapter 10 Maintenance and Inspection                        |       |
| 10.1 Periodically Replaced Parts.....                        | 10- 1 |
| 10.1.1 Periodically Replaced Parts .....                     | 10- 1 |
| 10.2 Periodical Service.....                                 | 10- 1 |
| 10.2.1 Periodically Service Items .....                      | 10- 1 |
| 10.3 Cleaning .....  | 10- 1 |
| 10.3.1 Cleaning Items .....                                  | 10- 1 |
| 10.3.2 Cleaning Method (External Covers) .....               | 10- 1 |
| 10.3.3 Cleaning Method (Reader Unit) .....                   | 10- 2 |
| 10.3.4 Cleaning Method (Pressure Roller).....                | 10- 3 |
| <br>   |       |
| Chapter 11 Measurement and Adjustments                       |       |
| 11.1 Basic Adjustments .....                                 | 11- 1 |
| 11.1.1 Paper Margin Adjustment.....                          | 11- 1 |
| 11.1.2 Reading Adjustment.....                               | 11- 1 |
| 11.1.3 Print Adjustment.....                                 | 11- 2 |
| <br>   |       |
| Chapter 12 Correcting Faulty Images                          |       |
| 12.1 Outline of Electrical Components .....                  | 12- 1 |
| 12.1.1 Clutch/Solenoid/Motor/Fan.....                        | 12- 1 |
| 12.1.1.1 List of Solenoids/Motors.....                       | 12- 1 |
| 12.1.2 Sensor.....   | 12- 3 |
| 12.1.2.1 List of Sensors .....                               | 12- 3 |
| 12.1.3 PCBs .....  | 12- 5 |
| 12.1.3.1 List of PCBs .....                                  | 12- 5 |
| <br>   |       |
| Chapter 13 Error Code  |       |
| 13.1 Error Code .....  | 13- 1 |
| 13.1.1 Error Code Outline .....                              | 13- 1 |
| 13.1.2 Error Code.....                                       | 13- 1 |
| <br>   |       |
| Chapter 14 Service Mode                                      |       |

|  |        |
|--|--------|
| 14.1 Outline .....                             | 14- 1  |
| 14.1.1 Setting Service Data .....              | 14- 1  |
| 14.1.2 How to Activate Service Mode .....      | 14- 1  |
| 14.1.3 Service Data Menu .....                 | 14- 2  |
| 14.2 Service Soft Switch Settings (SSSW) ..... | 14- 4  |
| 14.2.1 Outline .....                           | 14- 4  |
| 14.2.1.1 SOFT SWITCH Explained .....           | 14- 4  |
| 14.2.2 SSSW-SW02: .....                        | 14- 6  |
| 14.2.2.1 Function List .....                   | 14- 6  |
| 14.2.2.2 Bit 2 and 3 Elaborated .....          | 14- 6  |
| 14.2.2.3 Bit 5 Elaborated .....                | 14- 6  |
| 14.2.3 SSSW-SW04 .....                         | 14- 6  |
| 14.2.3.1 Function List .....                   | 14- 6  |
| 14.2.3.2 Bit 8 Elaborated .....                | 14- 7  |
| 14.2.4 SSSW-SW10 .....                         | 14- 7  |
| 14.2.4.1 Function List .....                   | 14- 7  |
| 14.2.4.2 Bit 1 Elaborated .....                | 14- 8  |
| 14.2.4.3 Bit 2 Elaborated .....                | 14- 8  |
| 14.2.5 SSSW-SW16 .....                         | 14- 8  |
| 14.2.5.1 Function List .....                   | 14- 8  |
| 14.2.6 SSSW-SW20 .....                         | 14- 8  |
| 14.2.6.1 ~@~ãíóó .....                         | 14- 8  |
| 14.2.6.2 Bit6AA7AA8ÇÃèçP .....                 | 14- 8  |
| 14.2.7 SSSW-SW21 .....                         | 14- 9  |
| 14.2.7.1 Function List .....                   | 14- 9  |
| 14.2.7.2 Bit 4 Elaborated .....                | 14- 9  |
| 14.2.8 SSSW-SW23 .....                         | 14- 9  |
| 14.2.8.1 ~@~ãíóó .....                         | 14- 9  |
| 14.2.8.2 Bit5AA6ÇÃèçP .....                    | 14- 10 |
| 14.2.8.3 Bit7AA8ÇÃèçP .....                    | 14- 10 |
| 14.2.9 SSSW-SW30 .....                         | 14- 10 |
| 14.2.9.1 Function List .....                   | 14- 10 |
| 14.2.9.2 Bit 7 and 8 Elaborated .....          | 14- 11 |
| 14.2.10 SSSW-SW37 .....                        | 14- 11 |
| 14.2.10.1 Function List .....                  | 14- 11 |
| 14.2.10.2 Bit 1 to Bit 6 Elaborated .....      | 14- 11 |
| 14.2.11 SSSW-SW39 .....                        | 14- 12 |
| 14.2.11.1 Function List .....                  | 14- 12 |
| 14.2.11.2 Bit 7 Elaborated .....               | 14- 12 |
| 14.2.11.3 Bit 8 Elaborated .....               | 14- 13 |
| 14.2.12 SSSW-SW51 .....                        | 14- 13 |
| 14.2.12.1 Function List .....                  | 14- 13 |
| 14.2.12.2 Bit 3 and 4 Elaborated .....         | 14- 13 |
| 14.2.13 SSSW-SW54 .....                        | 14- 13 |
| 14.2.13.1 Function List .....                  | 14- 13 |
| 14.2.13.2 Bit 6 and 7 Elaborated .....         | 14- 14 |
| 14.3 Test Mode (TEST) .....                    | 14- 15 |
| 14.3.1 Overview .....                          | 14- 15 |
| 14.3.1.1 Outline of test mode .....            | 14- 15 |
| 14.3.1.2 Test mode menu .....                  | 14- 15 |
| 14.3.2 Faculty Test .....                      | 14- 16 |
| 14.3.2.1 Print test pattern .....              | 14- 16 |
| 14.3.2.2 êMçÛËéÉXÉg .....                      | 14- 16 |
| 14.3.2.3 Sensor test .....                     | 14- 16 |
| 14.3.2.4 Key test .....                        | 14- 16 |

## Chapter 15 Service Tools

|                          |       |
|--------------------------|-------|
| 15.1 Service Tools ..... | 15- 1 |
|--------------------------|-------|

15.1.1 Solvents / Lubricants Table.....15- 1

---

## Chapter 1 Introduction

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# Contents

|   |      |
|---|------|
| 1.1 Product Specifications.....   | 1-1  |
| 1.1.1 Names of Parts .....  | 1-1  |
| 1.1.1.1 External View.....  | 1-1  |
| 1.1.1.2 Section View (Host Machine).....                                    | 1-4  |
| 1.1.1.3 Section View (ADF/DADF) .....                                       | 1-5  |
| 1.1.1.4 Control panel.....  | 1-6  |
| 1.1.2 Safety .....  | 1-7  |
| 1.1.2.1 Safety of the Host Machine's Laser Mechanism.....                   | 1-7  |
| 1.1.2.2 CDRH Regulations.....   | 1-7  |
| 1.1.2.3 Handling of the Laser Assembly.....                                 | 1-8  |
| 1.1.2.4 Safety of the Toner.....  | 1-8  |
| 1.1.2.5 Fire Attention .....  | 1-8  |
| 1.1.2.6 Points no Note when Replacing / Disposing the Lithium Battery ..... | 1-8  |
| 1.1.3 Product Specifications .....  | 1-9  |
| 1.1.3.1 Host Machine Specifications.....                                    | 1-9  |
| 1.1.3.2 ADF/DADF Specifications .....                                       | 1-10 |
| 1.1.3.3 FAX Specifications .....  | 1-10 |
| 1.1.4 Function List .....   | 1-11 |
| 1.1.4.1 Scanning Range (ADF/DADF).....                                      | 1-11 |
| 1.1.4.2 Scanning Range (copyboard) .....                                    | 1-11 |
| 1.1.4.3 Recording Range (Copy).....   | 1-12 |
| 1.1.4.4 Recording Range (Reception).....                                    | 1-13 |
| 1.1.4.5 Recording Range (Printer) .....                                     | 1-13 |
| 1.1.4.6 Operation Environment of the Printer Driver .....                   | 1-14 |
| 1.1.4.7 Network Specifications .....  | 1-14 |



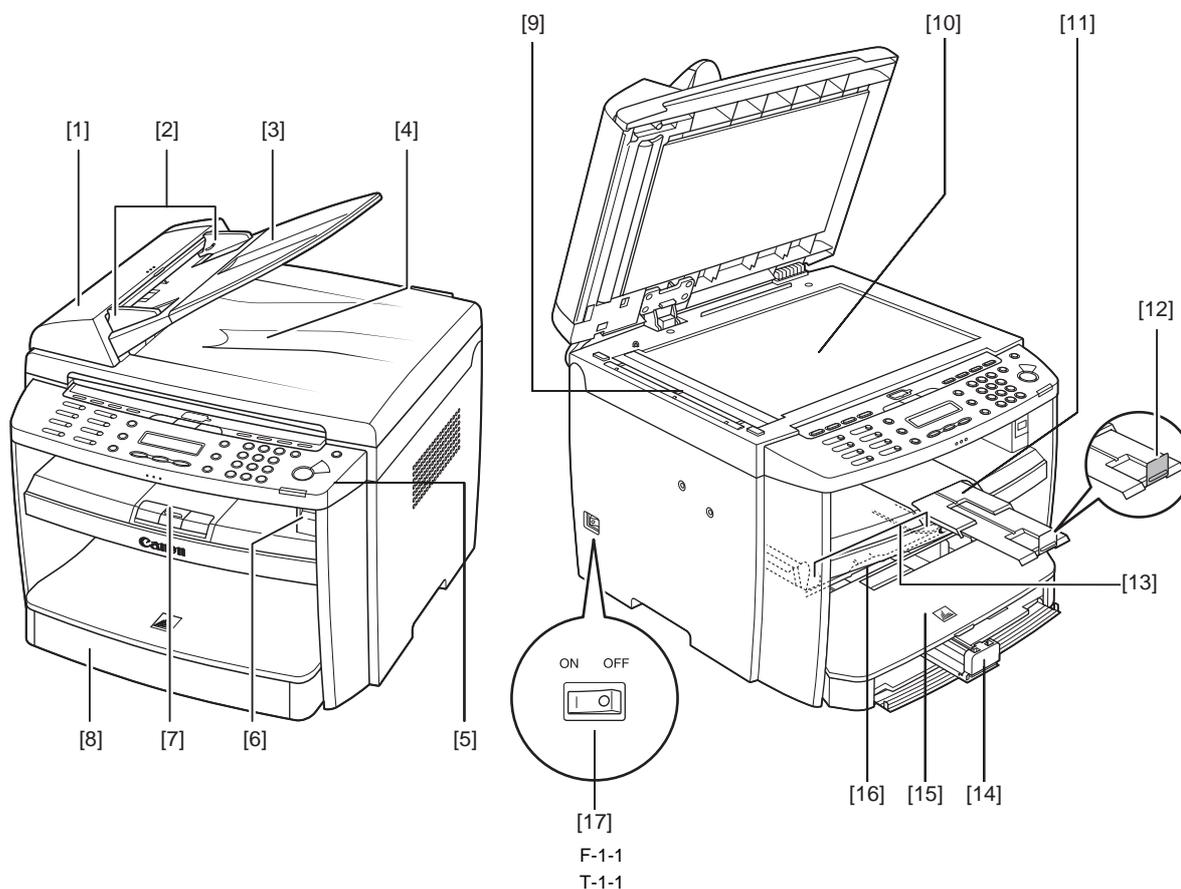
## 1.1 Product Specifications

### 1.1.1 Names of Parts

#### 1.1.1.1 External View

i-SENSYS MF4300dn / i-SENSYS MF4350d / i-SENSYS MF4380dn / i-SENSYS MF4310/4318 / i-SENSYS MF4320d / i-SENSYS MF4330d / i-SENSYS MF4340d / i-SENSYS D450d / i-SENSYS MF4370dn

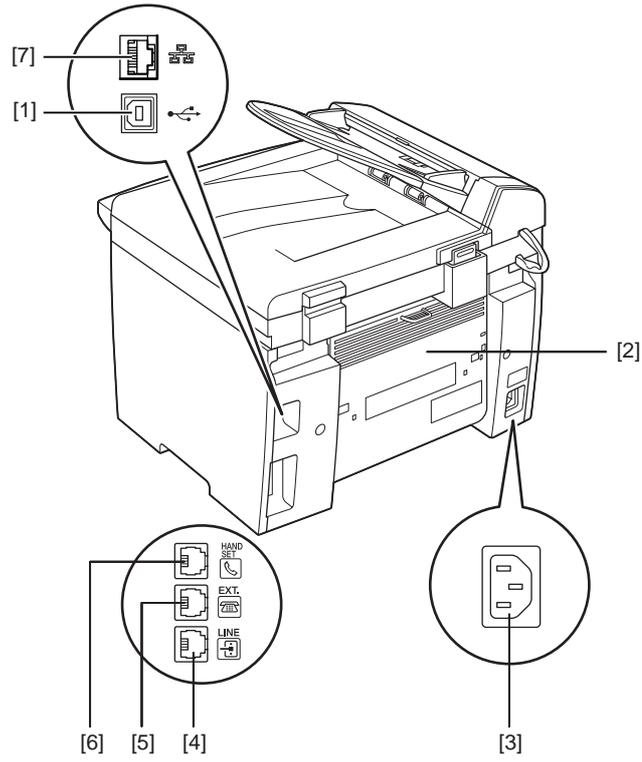
Front View (Body)(In the case of ADF)



- [1] ADF (Automatic Document Feeder)
- [2] Slide Guides
- [3] Document feeder tray
- [4] Document delivery tray
- [5] Operation panel
- [6] USB memory port
- [7] Output tray
- [8] Paper cassette
- [9] Scanning area

- [10] Platen glass
- [11] Output tray extension
- [12] Paper stopper
- [13] Slide guides for multi-purpose tray
- [14] Paper guide rail
- [15] Dust cover
- [16] Multi-purpose tray
- [17] Main power switch

Rear View (Body)(In the case of ADF)

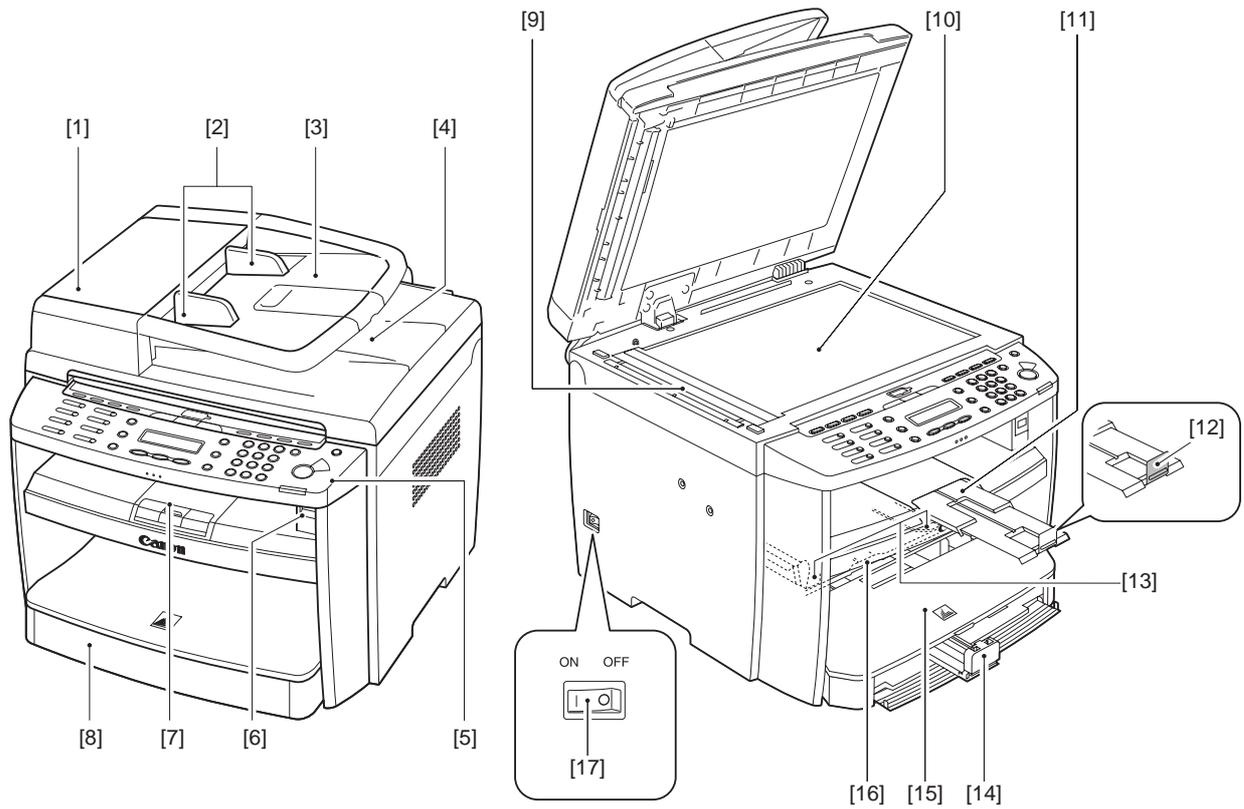


F-1-2  
T-1-2

- [1] USB port
- [2] Rear cover
- [3] Power socket
- [4] Telephone line jack

- [5] External device jack
- [6] Handset jack
- [7] Ethernet port

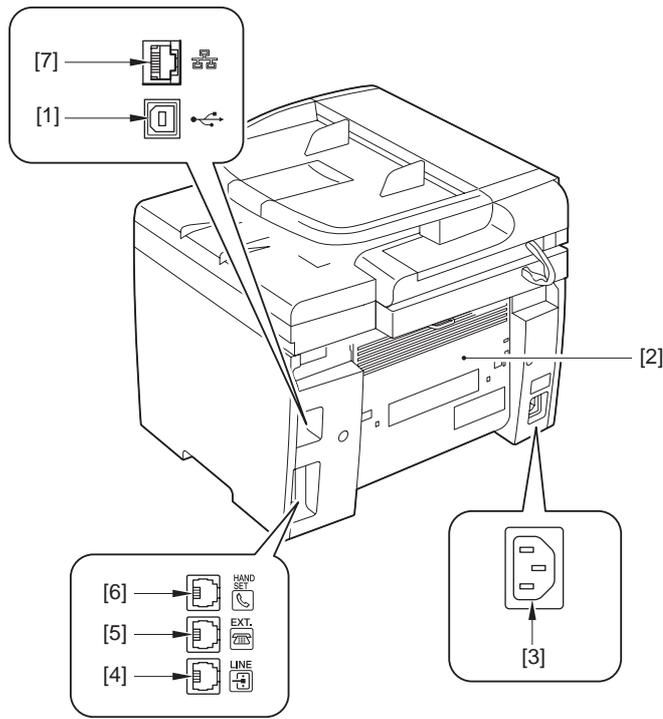
Front View (Body)(In the case of DADF)



F-1-3  
T-1-3

- |   |  |
|---|--|
| [1] DADF (Duplex Automatic Document Feeder) | [10] Platen glass                        |
| [2] Slide Guides                            | [11] Output tray extension               |
| [3] Document feeder tray                    | [12] Paper stopper                       |
| [4] Document delivery tray                  | [13] Slide guides for multi-purpose tray |
| [5] Operation panel                         | [14] Paper guide rail                    |
| [6] USB memory port                         | [15] Dust cover                          |
| [7] Output tray                             | [16] Multi-purpose tray                  |
| [8] Paper cassette                          | [17] Main power switch                   |
| [9] DADF Scanning area                      |  |

**Rear View (Body)(In the case of DADF)**

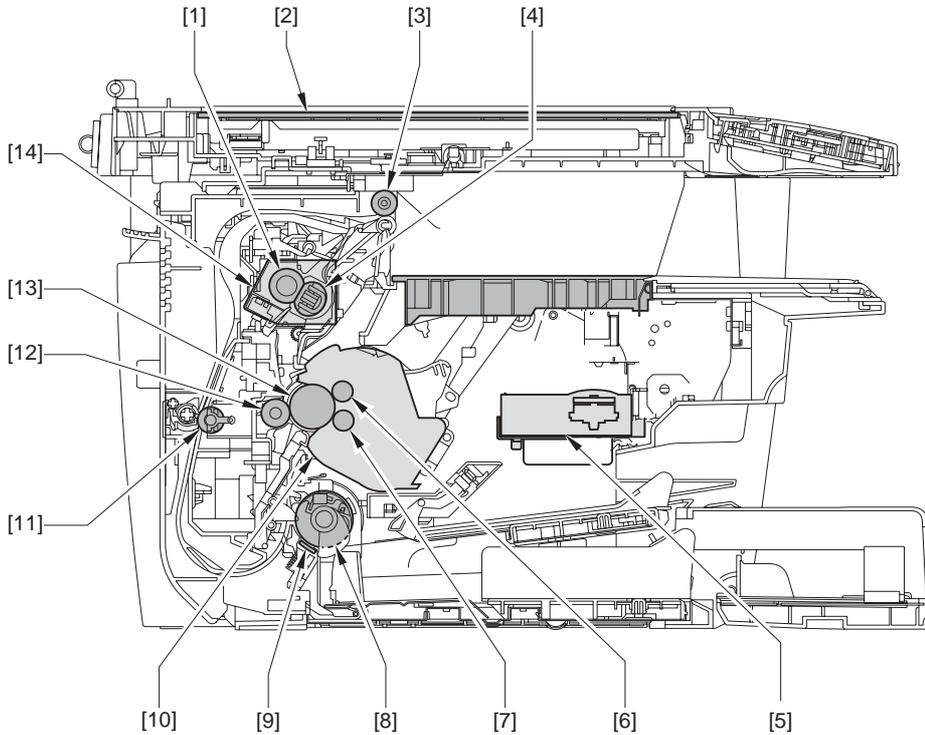


F-1-4  
T-1-4

- [1] USB port
- [2] Rear cover
- [3] Power socket
- [4] Telephone line jack
- [5] External device jack
- [6] Handset jack
- [7] Ethernet port

**1.1.1.2 Section View (Host Machine)**

i-SENSYS MF4300dn / i-SENSYS MF4350d / i-SENSYS MF4380dn / i-SENSYS MF4310/4318 / i-SENSYS MF4320d / i-SENSYS MF4330d / i-SENSYS MF4340d / i-SENSYS D450d / i-SENSYS MF4370dn



F-1-5

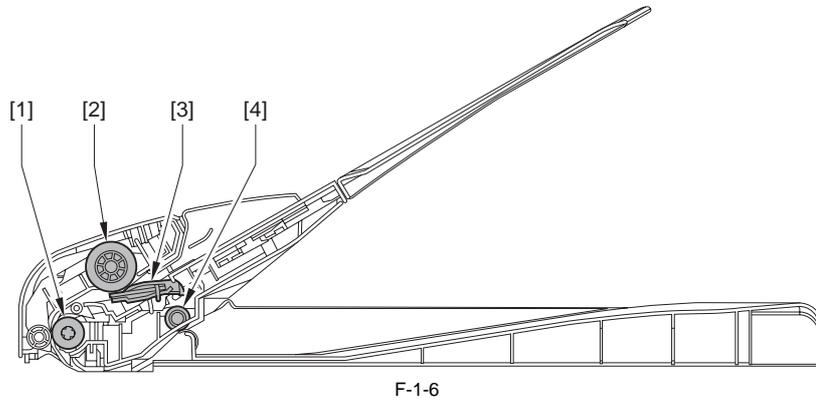
- [1] pressure roller
- [2] copyboard glass (scanning glass)
- [3] pick-up roller
- [4] separation pad
- [8] pick-up roller
- [9] separation pad

|     |                         |      |                          |
|-----|-------------------------|------|--------------------------|
| [3] | delivery roller         | [10] | cartridge                |
| [4] | fixing film unit        | [11] | duplexing feeding roller |
| [5] | laser scanner unit      | [12] | transfer charging roller |
| [6] | primary charging roller | [13] | photosensitive drum      |
| [7] | developing cylinder     | [14] | fixing unit              |

**1.1.1.3 Section View (ADF/DADF)**

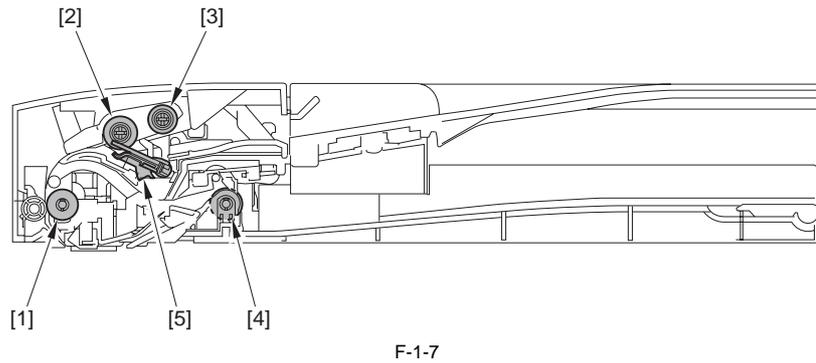
i-SENSYS MF4300dn / i-SENSYS MF4350d / i-SENSYS MF4380dn / i-SENSYS MF4310/4318 / i-SENSYS MF4320d / i-SENSYS MF4330d / i-SENSYS MF4340d / i-SENSYS D450d / i-SENSYS MF4370dn

**ADF Section view**



- [1] registration roller
- [2] pickup roller
- [3] separation pad
- [4] delivery roller

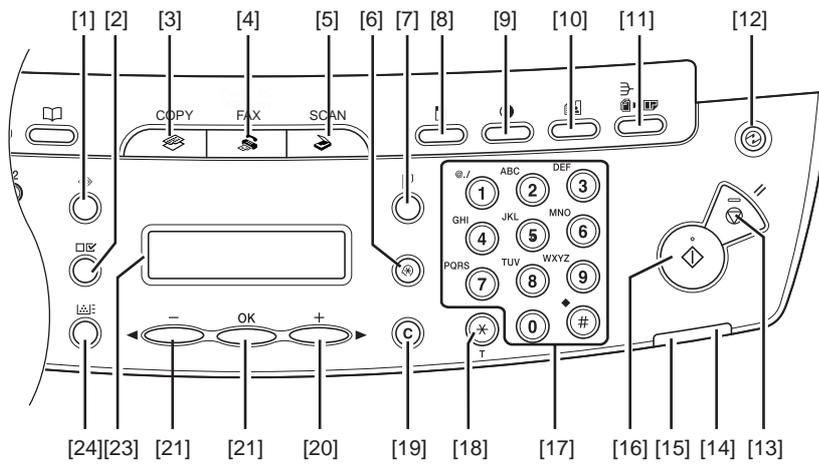
**DADF Section View**



- [1] registration roller
- [2] separation roller
- [3] pickup roller
- [4] separation pad
- [5] delivery roller

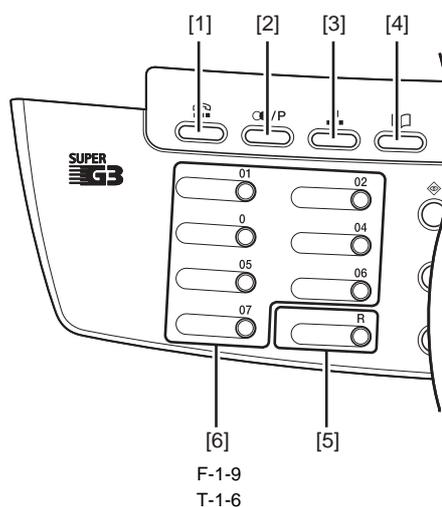
1.1.1.4 Control panel

i-SENSYS MF4300dn / i-SENSYS MF4350d / i-SENSYS MF4380dn / i-SENSYS MF4310/4318 / i-SENSYS MF4320d / i-SENSYS MF4330d / i-SENSYS MF4340d / i-SENSYS D450d / i-SENSYS MF4370dn



F-1-8  
T-1-5

- |                                |                                |
|--------------------------------|--------------------------------|
| [1] [System Monitor] key       | [13] [Stop/Reset] key          |
| [2] [View Settings] key        | [14] Error indicator           |
| [3] [COPY] key                 | [15] Processing/Data indicator |
| [4] [SEND/FAX] key             | [16] [Start] key               |
| [5] [SCAN] key                 | [17] Numeric key               |
| [6] [Additional Functions] key | [18] [Tone] key                |
| [7] [2-Sided] key              | [19] [Clear] key               |
| [8] [Enlarge/Reduce] key       | [20] [+] key                   |
| [9] [Density] key              | [21] [OK] key                  |
| [10] [Image Quality] key       | [22] [-] key                   |
| [11] [Collate/2 on 1] key      | [23] LCD display               |
| [12] [Energy Saver] key        | [24] [Toner Gauge] key         |



- |                        |                               |
|------------------------|-------------------------------|
| [1] [Hook] key         | [4] [Address Book] key        |
| [2] [Recall/Pause] key | [5] R key                     |
| [3] [Coded Dial] key   | [6] One-Touch Speed Dial keys |

## 1.1.2 Safety

### 1.1.2.1 Safety of the Host Machine's Laser Mechanism

i-SENSYS MF4300dn / i-SENSYS MF4350d / i-SENSYS MF4380dn / i-SENSYS MF4310/4318 / i-SENSYS MF4320d / i-SENSYS MF4330d / i-SENSYS MF4340d / i-SENSYS D450d / i-SENSYS MF4370dn

Laser radiation can prove to be harmful to the human body. The host machine's laser scanning system is completely sealed by means of a protective housing and external covers so that its light will not leak outside the host machine as long as the host machine is used normally.

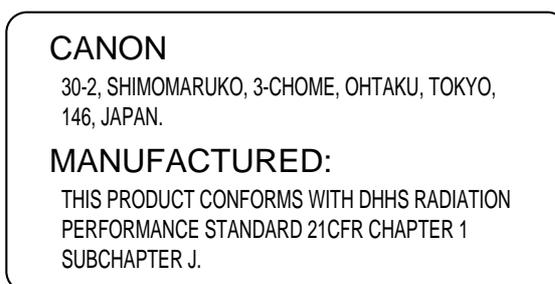
### 1.1.2.2 CDRH Regulations

i-SENSYS MF4300dn / i-SENSYS MF4350d / i-SENSYS MF4380dn / i-SENSYS MF4310/4318 / i-SENSYS MF4320d / i-SENSYS MF4330d / i-SENSYS MF4340d / i-SENSYS D450d / i-SENSYS MF4370dn

The Center for Devices and Radiological Health (CDRH) of the US Food and Drug Administrator put into forth regulations that relate to laser products on August 2nd, 1976.

These regulations apply to laser products produced on and after August 1st, 1976, and prohibit the sale of laser products without certification.

The following labels certify compliance with the CDRH regulations, and must be attached to all laser products that are sold in the US.



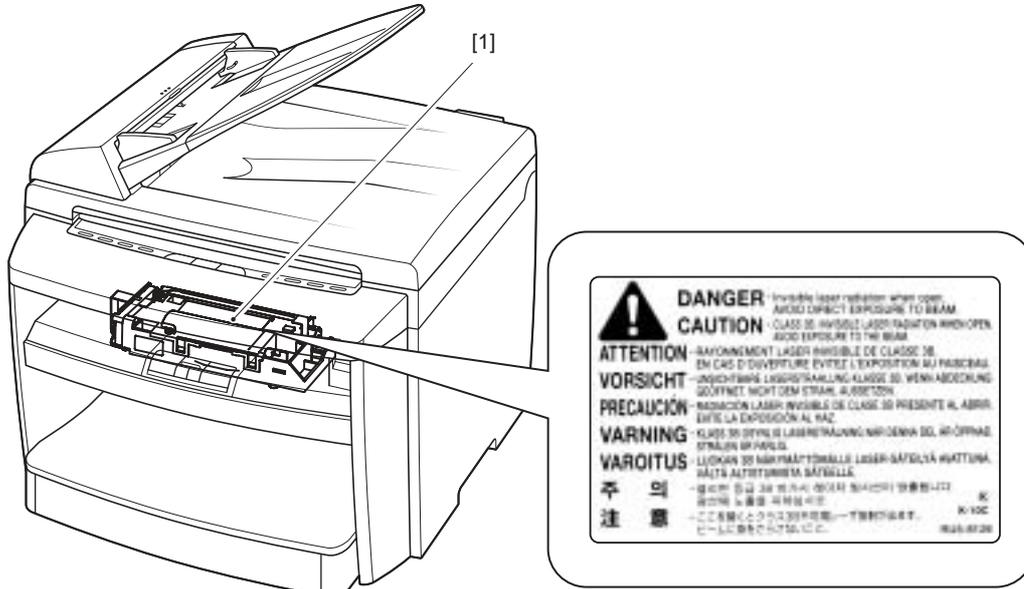
F-1-10

### 1.1.2.3 Handling of the Laser Assembly

i-SENSYS MF4300dn / i-SENSYS MF4350d / i-SENSYS MF4380dn / i-SENSYS MF4310/4318 / i-SENSYS MF4320d / i-SENSYS MF4330d / i-SENSYS MF4340d / i-SENSYS D450d / i-SENSYS MF4370dn

When performing servicing work around the laser scanner unit of this machine, be sure not to insert a highly reflective tool such as a driver directly into the laser light path. Also be sure to take off a watch or ring, etc. during servicing work. (Otherwise, the reflected laser beam may enter the eye.) The color of the laser light for this machine is red. The labels [1] and [2] shown in the figure below are attached on the covers where the laser light may be reflected. Further, no adjustment can be made to the laser scanner unit of this machine in the field.

The label [1] shown in the figure below is attached on the cover of the laser scanner assembly.



F-1-11

### 1.1.2.4 Safety of the Toner

i-SENSYS MF4300dn / i-SENSYS MF4350d / i-SENSYS MF4380dn / i-SENSYS MF4310/4318 / i-SENSYS MF4320d / i-SENSYS MF4330d / i-SENSYS MF4340d / i-SENSYS D450d / i-SENSYS MF4370dn

Toner in General

Toner is a non-toxic material made up of plastic, iron, and small amounts of dye.



Be sure not to throw toner into the fire. Doing so may cause an explosion.

How to handle the toner adhered

1. When toner is adhered to the skin or clothing, wipe it off the skin or clothing by a dry tissue and wash the skin or clothing with water.
2. If you use hot water, toner is turned into gel and soaks into clothing. Under such a condition, toner cannot be removed.
3. Do not make toner come into contact with a vinyl material because they tend to react with each other.

### 1.1.2.5 Fire Attention

i-SENSYS MF4300dn / i-SENSYS MF4350d / i-SENSYS MF4380dn / i-SENSYS MF4310/4318 / i-SENSYS MF4320d / i-SENSYS MF4330d / i-SENSYS MF4340d / i-SENSYS D450d / i-SENSYS MF4370dn

It is dangerous to throw the parts that include combustible materials such as lithium battery and toner cartridge etc., into fire. Any used battery must always be disposed according to the appropriate local regulations.

### 1.1.2.6 Points no Note when Replacing / Disposing the Lithium Battery

i-SENSYS MF4300dn / i-SENSYS MF4350d / i-SENSYS MF4380dn / i-SENSYS MF4310/4318 / i-SENSYS MF4320d / i-SENSYS MF4330d / i-SENSYS MF4340d / i-SENSYS D450d / i-SENSYS MF4370dn



There is a risk of explosion if the battery is replaced with an incorrect type.  
Be sure to discard the used battery following the instruction in the manual.

## 1.1.3 Product Specifications

### 1.1.3.1 Host Machine Specifications

i-SENSYS MF4300dn / i-SENSYS MF4350d / i-SENSYS MF4380dn / i-SENSYS MF4310/4318 / i-SENSYS MF4320d / i-SENSYS MF4330d / i-SENSYS MF4340d / i-SENSYS D450d / i-SENSYS MF4370dn

|  |   |
|--|---|
| <b>Copyboard</b>                                 | Fixed   |
| <b>Body</b>                                      | Desktop (ADF standard type:MF4130/MF4150 only)  |
| <b>Light source type</b>                         | LED   |
| <b>Image reading method</b>                      | Contact Sensor Reading Method   |
| <b>Photosensitive medium</b>                     | OPD drum  |
| <b>Reproduction method</b>                       | Indirect electrostatic copying method   |
| <b>Exposure method</b>                           | Semiconductor laser   |
| <b>Charging method</b>                           | Roller contact charging method  |
| <b>Development method</b>                        | Dry system - element jumping development method   |
| <b>Transfer method</b>                           | Roller transfer method  |
| <b>Separation method</b>                         | Electrostatic separation (neutralizing needle) and curvature separation   |
| <b>Pickup method</b>                             | Cassette pick-up: 1 cassette<br>Manual feeding pick-up  |
| <b>Cassette pickup method</b>                    | Pad separation method   |
| <b>Multifeeder pickup method</b>                 | Pad separation method   |
| <b>Drum cleaning method</b>                      | Rubber blade  |
| <b>Fixing method</b>                             | On-demand fixing  |
| <b>Toner supply type</b>                         | By drum style toner cartridge   |
| <b>Toner type</b>                                | Magnetic negative toner   |
| <b>Toner save mode</b>                           | Yes   |
| <b>Original type</b>                             | Sheets, books, solids (up to 2 kg)  |
| <b>Maximum original size</b>                     | Fixed: 216mm x 297mm<br>ADF: 216mm x 356mm  |
| <b>Reproduction ratio</b>                        | 1 to 1 + / - 1.0 %, 1 to 2.00, 1 to 1.29, 1 to 0.78, 1 to 0.64, 1 to 0.50<br>Zoom: 0.50 to 2.00 (specified by the percent)  |
| <b>Reading resolution</b>                        | 600 x 600 dpi   |
| <b>Printing resolution</b>                       | 600 x 600 dpi   |
| <b>Warm-up time</b>                              | 10.0 seconds or less  |
| <b>First print time</b>                          | 9.0 seconds or less (A4/LTR)  |
| <b>Print speed</b>                               | One-sided:<br>Approximately 22 sheets / minute (A4)<br>Approximately 23 sheets / minute (LTR)<br>Double-sided:<br>Approximately 11 sheets / minutes   |
| <b>Cassette paper size</b>                       | LTR, LGL, A4, B5, A5, Executive, Envelope (COM10, Monarch, DL,ISO-C5), Oficio, Brazil-Oficio, Mexico-Oficio, Folio, Government-LTR, Government-LGL, Foolscap (76 x 127 to 216 x 356 mm)   |
| <b>Multifeeder paper size</b>                    | LTR, LGL, A4, B5, A5, Executive, Envelope (COM10, Monarch, DL,ISO-C5), Oficio, Brazil-Oficio, Mexico-Oficio, Folio, Government-LTR, Government-LGL, Foolscap (76 x 127 to 216 x 356 mm)   |
| <b>Cassette paper type</b>                       | Plain paper (64 to 90g / m2), thick paper (105 to 128g / m2), recycled paper (64 to 80g / m2), transparency, label, envelop, and postcard   |
| <b>Multifeeder tray paper type</b>               | Plain paper (64 to 90g / m2), thick paper (105 to 128g / m2), recycled paper (64 to 80g / m2), transparency, label, envelop, and postcard   |
| <b>Cassette capacity</b>                         | 250 sheets (80g / m2 paper)   |
| <b>Multifeeder tray capacity</b>                 | 10 sheets (plain paper: 80g / m2 paper)<br>1 sheet (transparency, envelop)  |
| <b>Delivery tray stack</b>                       | 100 sheets (plain paper: 80g / m2 paper)<br>50 sheets (thick paper: 91 to 105g / m2 paper)<br>30 sheets (thick paper: 106 to 128g / m2 paper)<br>10 sheets (label, transparency, envelop, postcard)   |
| <b>Continuous reproduction</b>                   | 1 to 99 sheets  |
| <b>Energy save mode</b>                          | Yes. (Manual ON / OFF, automatically OFF after a set period of time, automatically ON when receiving facsimile / print data, automatically ON when placing paper on ADF, automatically ON when sending facsimile from PC, automatically ON when NW PULL SCAN, automatically ON when USB SCAN) |
| <b>Network</b>                                   | Yes   |
| <b>Operating environment (temperature range)</b> | 15 to 30 degrees C  |
| <b>Operating environment (humidity range)</b>    | 5 to 90 %   |

|   |   |
|---|---|
| <b>Operating environment (atmospheric pressure)</b> | 0.16 to 1.01 hPa (0.6 to 1 bar)   |
| <b>Power supply rating</b>                          | 120V, or 230V   |
| <b>Power consumption (maximum)</b>                  | Maximum consumption: less than 630W   |
| <b>Power consumption</b>                            | During operation: approximately 440W or less (reference value)At standby: approximately 9.0W (reference value)In sleep mode: approximately 3W (reference value) |
| <b>Ozone</b>  | Maximum: less than 0.05 ppm, average: less than 0.02 ppm  |
| <b>Dimensions</b>                                   | 390 (W) x 432 (D) x 370 (H) mm (with original pick-up tray)   |
| <b>Weight</b>                                       | Approximately 13.4kg (including toner cartridges)   |

### 1.1.3.2 ADF/DADF Specifications

i-SENSYS MF4300dn / i-SENSYS MF4350d / i-SENSYS MF4380dn / i-SENSYS MF4310/4318 / i-SENSYS MF4320d / i-SENSYS MF4330d / i-SENSYS MF4340d / i-SENSYS D450d / i-SENSYS MF4370dn

|                                  |   |
|----------------------------------|---|
| <b>Original orientation</b>      | Face-up method  |
| <b>Original position</b>         | center reference  |
| <b>Original processing mode</b>  | ADF: 1-sided to 1-sided copy, 1-sided to 2-sided copy<br>DADF: 1-sided to 1-sided copy, 1-sided to 2-sided copy, 2-sided to 1-sided copy, 2-sided to 2-sided copy |
| <b>Original reading</b>          | stream reading method   |
| <b>Stack</b>                     | ADF:<br>35 sheets (80 g/m <sup>2</sup> or less)<br>25 sheets (LGL size)<br><br>DADF:<br>50 sheets (80 g/m <sup>2</sup> or less)<br>50 sheets (LGL size)           |
| <b>Mixed original sizes</b>      | No  |
| <b>Original AE detection</b>     | No  |
| <b>Original size recognition</b> | No  |
| <b>Stamp</b>                     | No  |
| <b>Operating environment</b>     | pursuant to the host machine  |

### 1.1.3.3 FAX Specifications

i-SENSYS MF4300dn / i-SENSYS MF4350d / i-SENSYS MF4380dn / i-SENSYS MF4310/4318 / i-SENSYS MF4320d / i-SENSYS MF4330d / i-SENSYS MF4340d / i-SENSYS D450d / i-SENSYS MF4370dn

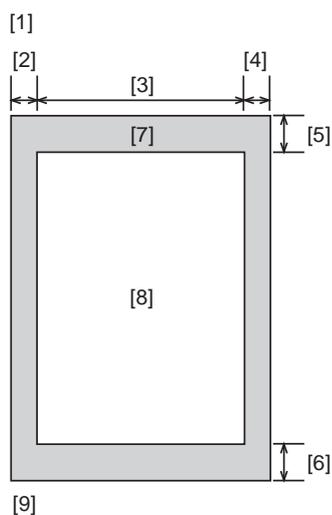
|                                    |   |
|------------------------------------|---|
| <b>Applicable lines</b>            | Analog line (single line)<br>- Telephone subscriber line (PSTN)   |
| <b>Transmission method</b>         | Half-duplex communication   |
| <b>Modulation method</b>           | <G3 image signal><br>ITU-T V.27 ter (2.4Kbps, 4.8Kbps)<br>ITU-T V.29 (7.2Kbps, 9.6Kbps)<br>ITU-T V.17 (TC7.2Kbps, TC9.6Kbps, 12Kbps, 14.4Kbps)<br>ITU-T V.34 (2.4Kbps, 4.8Kbps, 7.2Kbps, 9.6Kbps, 12Kbps, 14.4Kbps, 16.8Kbps, 19.2Kbps, 21.6Kbps, 24Kbps, 26.4Kbps, 28.8Kbps, 31.2Kbps, 33.6Kbps)<br><G3 procedure signal><br>ITU-T V.21 No.2 (300bps)<br>ITU-T V.8, V.34 (1200bps) |
| <b>Transmission speed</b>          | 33.6Kbps, 31.2Kbps, 28.8Kbps, 26.4Kbps, 24Kbps, 21.6Kbps, 19.2Kbps, 16.8Kbps, 14.4Kbps, 12Kbps, TC9.6Kbps, TC7.2Kbps, 9.6Kbps, 7.2Kbps, 4.8Kbps, 2.4Kbps<br>With automatic fallback function  |
| <b>Coding</b>                      | MMR, MR, MH   |
| <b>Error correction</b>            | ITU-T ECM   |
| <b>Minimum receive input level</b> | V.17, V.27ter, V.29: -6 to -43 dBm<br>V.34: -10 to -43 dBm  |
| <b>Modem IC</b>                    | CONEXANT SFX336   |
| <b>Scanning line density</b>       | Standard: 8 dots / mm x 3.85 lines / mm<br>Fine: 8 dots / mm x 7.7 lines / mm<br>Super fine/ 8 dots / mm X 15.4 lines / mm  |
| <b>Half tone</b>                   | 256 gradation sequence  |
| <b>Printing resolution</b>         | 600 dpi x 600 dpi   |
| <b>Reduction for reception</b>     | Fixed reduction: No<br>Automatic reduction: 75 to 100%  |
| <b>FAX/TEL switching</b>           | Yes.  |

|                                     |   |
|-------------------------------------|---|
| <b>Answering machine connection</b> | Yes.  |
| <b>Remote reception</b>             | ID entry method<br>ID: 2 digits (default is 25)                                   |
| <b>Memory reception</b>             | Approximately 256 sheets  |
| <b>Auto dialing</b>                 | One-touch dial: 8 (EC; 7)<br>Speed dial: 100<br>Group dial: Maximum 108 (EC; 107) |
| <b>Delayed transmission</b>         | No.   |
| <b>Broadcast transmission</b>       | Number of Destination: Maximum 124 (one-touch / speed dial: 108, ten key: 16)     |
| <b>Dual access</b>                  | Reservation Capacity: Maximum 256 jobs  |
| <b>Image data backup</b>            | No.   |

## 1.1.4 Function List

### 1.1.4.1 Scanning Range (ADF/DADF)

i-SENSYS MF4300dn / i-SENSYS MF4350d / i-SENSYS MF4380dn / i-SENSYS MF4310/4318 / i-SENSYS MF4320d / i-SENSYS MF4330d / i-SENSYS MF4340d / i-SENSYS D450d / i-SENSYS MF4370dn



F-1-12

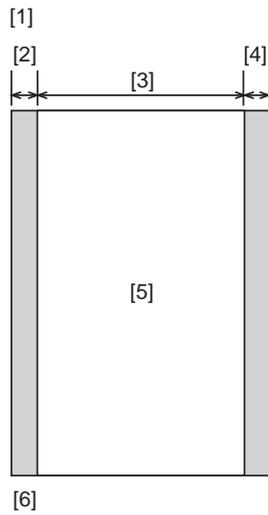
- |                              |                               |
|------------------------------|-------------------------------|
| [1] leading edge of original | [6] trailing edge margin      |
| [2] left margin              | [7] non-scanning area         |
| [3] effective scanning width | [8] scanning range            |
| [4] right margin             | [9] trailing edge of original |
| [5] leading edge margin      |                               |

T-1-7

| item                     | A4               | Letter           | Legal            |
|--------------------------|------------------|------------------|------------------|
| effective scanning width | 206 +2.0/-2.0 mm | 212 +2.0/-2.0 mm | 212 +2.0/-2.0 mm |
| left margin              | 2.0 +2.0/-2.0 mm | 2.0 +2.0/-2.0 mm | 2.0 +2.0/-2.0 mm |
| right margin             | 2.0 +2.0/-2.0 mm | 2.0 +2.0/-2.0 mm | 2.0 +2.0/-2.0 mm |
| leading edge margin      | 2.0 +2.0/-2.0 mm | 2.0 +2.0/-2.0 mm | 2.0 +2.0/-2.0 mm |
| trailing edge margin     | 2.0 +2.0/-2.0 mm | 2.0 +2.0/-2.0 mm | 2.0 +2.0/-2.0 mm |

### 1.1.4.2 Scanning Range (copyboard)

i-SENSYS MF4300dn / i-SENSYS MF4350d / i-SENSYS MF4380dn / i-SENSYS MF4310/4318 / i-SENSYS MF4320d / i-SENSYS MF4330d / i-SENSYS MF4340d / i-SENSYS D450d / i-SENSYS MF4370dn



F-1-13

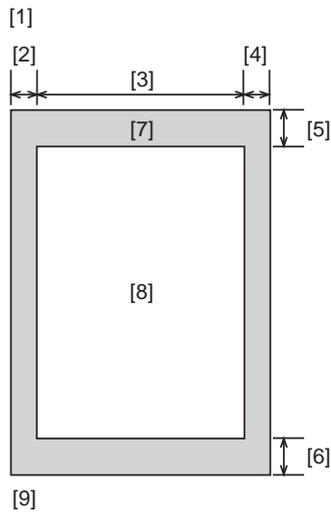
- [1] leading edge of document
- [2] left margin
- [3] effective scanning width
- [4] right margin
- [5] scanning range
- [6] trailing edge of document

T-1-8

| item                     | A4               | Letter           |
|--------------------------|------------------|------------------|
| effective scanning width | 206 mm           | 212 mm           |
| left margin              | 2.0 +2.0/-2.0 mm | 2.0 +2.0/-2.0 mm |
| right margin             | 2.0 +2.0/-2.0 mm | 2.0 +2.0/-2.0 mm |

**1.1.4.3 Recording Range (Copy)**

i-SENSYS MF4300dn / i-SENSYS MF4350d / i-SENSYS MF4380dn / i-SENSYS MF4310/4318 / i-SENSYS MF4320d / i-SENSYS MF4330d / i-SENSYS MF4340d / i-SENSYS D450d / i-SENSYS MF4370dn



F-1-14

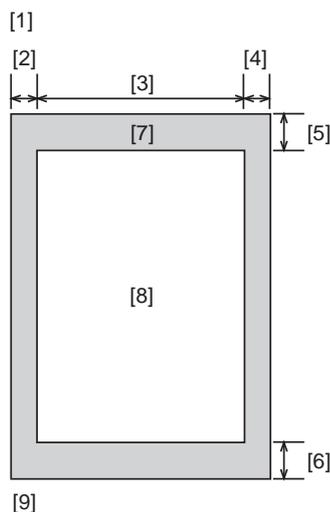
- [1] leading edge of document
- [2] left margin
- [3] effective scanning width
- [4] right margin
- [5] trailing edge margin
- [6] trailing edge margin
- [7] non-scanning area
- [8] scanning range
- [9] trailing edge of document

T-1-9

| item                            | A4               | Letter           | Legal            |
|---------------------------------|------------------|------------------|------------------|
| effective recording width       | 204 +1.0/-2.0 mm | 210 +2.0/-2.0 mm | 210 +2.0/-2.0 mm |
| effective recording left margin | 3.0 +2.0/-2.0 mm | 3.0 +2.0/-2.0 mm | 3.0 +2.0/-2.0 mm |
| right margin                    | 3.0 +2.0/-2.0 mm | 3.0 +2.0/-2.0 mm | 3.0 +2.0/-2.0 mm |
| leading edge margin             | 4.0 +2.0/-2.0 mm | 4.0 +2.0/-2.0 mm | 4.0 +2.0/-2.0 mm |
| trailing edge margin            | 5.0 +2.0/-2.0 mm | 5.0 +2.0/-2.0 mm | 5.0 +2.0/-2.0 mm |

#### 1.1.4.4 Recording Range (Reception)

i-SENSYS MF4300dn / i-SENSYS MF4350d / i-SENSYS MF4380dn / i-SENSYS MF4310/4318 / i-SENSYS MF4320d / i-SENSYS MF4330d / i-SENSYS MF4340d / i-SENSYS D450d / i-SENSYS MF4370dn



F-1-15

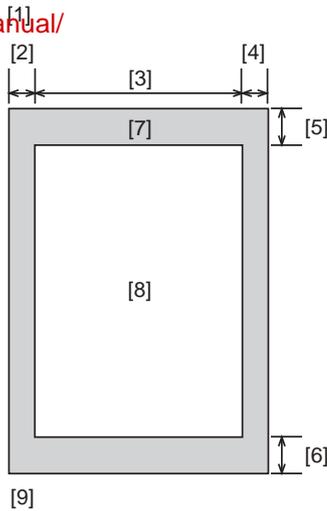
- |                              |                               |
|------------------------------|-------------------------------|
| [1] leading edge of document | [6] trailing edge margin      |
| [2] left margin              | [7] non-scanning area         |
| [3] effective scanning width | [8] scanning range            |
| [4] right margin             | [9] trailing edge of document |
| [5] leading edge margin      |                               |

T-1-10

| item                      | A4               | Letter           | Legal            |
|---------------------------|------------------|------------------|------------------|
| effective recording width | 206 +1.0/-2.0 mm | 212 +2.0/-2.0 mm | 212 +2.0/-2.0 mm |
| left margin               | 2.0 +2.0/-2.0 mm | 2.0 +2.0/-2.0 mm | 2.0 +2.0/-2.0 mm |
| right margin              | 2.0 +2.0/-2.0 mm | 2.0 +2.0/-2.0 mm | 2.0 +2.0/-2.0 mm |
| leading edge margin       | 2.0 +2.0/-2.0 mm | 2.0 +2.0/-2.0 mm | 2.0 +2.0/-2.0 mm |
| trailing edge margin      | 6.0 +2.0/-2.0 mm | 6.0 +2.0/-2.0 mm | 6.0 +2.0/-2.0 mm |

#### 1.1.4.5 Recording Range (Printer)

i-SENSYS MF4300dn / i-SENSYS MF4350d / i-SENSYS MF4380dn / i-SENSYS MF4310/4318 / i-SENSYS MF4320d / i-SENSYS MF4330d / i-SENSYS MF4340d / i-SENSYS D450d / i-SENSYS MF4370dn



F-1-16

- [1] leading edge of document
- [2] left margin
- [3] effective scanning width
- [4] right margin
- [5] leading edge margin
- [6] trailing edge margin
- [7] non-scanning area
- [8] scanning range
- [9] trailing edge of document

T-1-11

| item                 | A4               | Letter           | Legal            |
|----------------------|------------------|------------------|------------------|
| left margin          | 5.0 +2.0/-2.0 mm | 5.0 +2.0/-2.0 mm | 5.0 +2.0/-2.0 mm |
| right margin         | 5.0 +2.0/-2.0 mm | 5.0 +2.0/-2.0 mm | 5.0 +2.0/-2.0 mm |
| leading edge margin  | 6.0 +2.0/-2.0 mm | 6.0 +2.0/-2.0 mm | 6.0 +2.0/-2.0 mm |
| trailing edge margin | 6.0 +2.0/-2.0 mm | 6.0 +2.0/-2.0 mm | 6.0 +2.0/-2.0 mm |

### 1.1.4.6 Operation Environment of the Printer Driver

i-SENSYS MF4350d / i-SENSYS MF4380dn / i-SENSYS MF4310/4318 / i-SENSYS MF4320d / i-SENSYS MF4330d / i-SENSYS MF4340d / i-SENSYS D450d / i-SENSYS MF4370dn

#### Operation environment

Windows 2000, Windows XP, Windows Vista

#### Computer

Computer in which Windows 2000, Windows XP, or Windows Vista runs properly.

#### Hardware environment

- IBM PC or IBM compatible PC
- CD-ROM drive or network environment accessible to CD-ROM
- PC equipped with USB port

T-1-12

| OS            | CPU                                       | RAM            |
|---------------|---|----------------|
| Windows 2000  | Intel Pentium 133 MHz or more             | 128 MB or more |
| Windows XP    | Intel Pentium ii/ Celeron 300 MHz or more | 128 MB or more |
| Windows Vista | Intel Pentium 800MHz or faster            | 512MB or more  |

\* Log in as a user account to which the administrator's right is authorized.

### 1.1.4.7 Network Specifications

i-SENSYS MF4380dn / i-SENSYS MF4370dn

|                     |                         |
|---------------------|-------------------------|
| Connector           | RJ45                    |
| Communication speed | 10Base-T/100Base-TX     |
| Communication mode  | FULL DUPLEX/half DUPLEX |

Sample of manual. Download All 182 pages at:

<https://www.arepairmanual.com/downloads/2008-canon-mf4300-series-printer-service-repair-workshop-manual/>