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Service Manual

iR2020/2016 Series

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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.



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.
 Memo	Indicates an item intended to provide notes assisting the understanding of the topic in question.
 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."

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Chapter 1 Introduction

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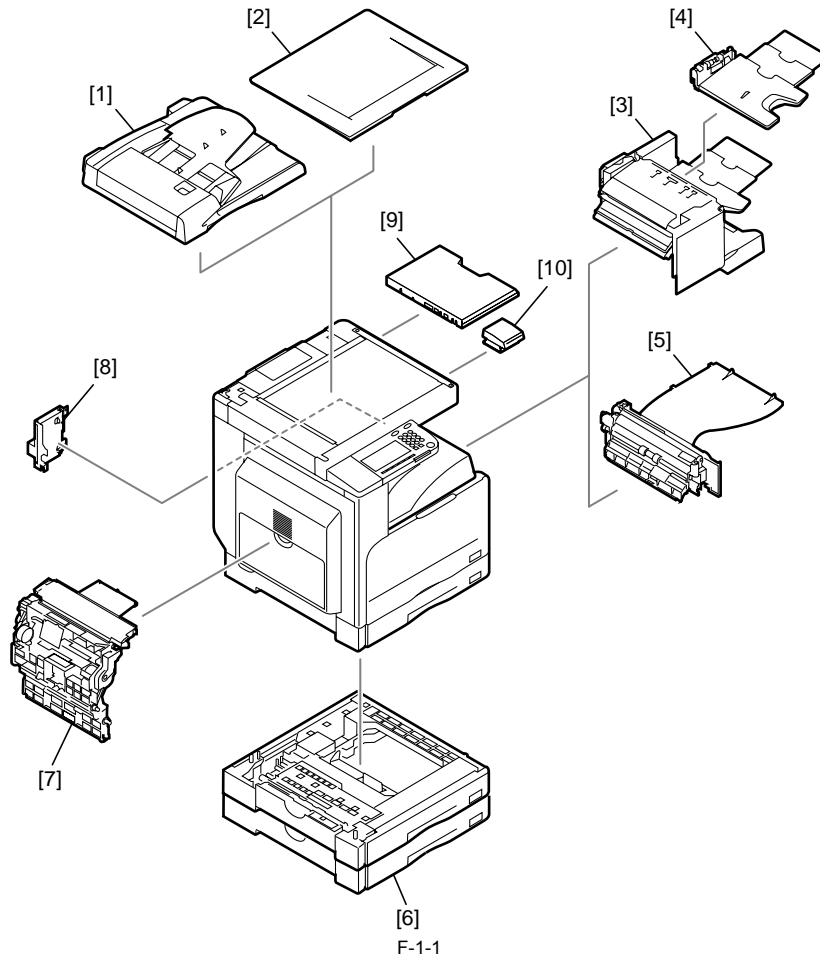
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1.1 System Construction

1.1.1 Pickup/Delivery /Original Handling Accessories System Configuration (iR2020/iR2020J)

iR2020 /

The configuration is as shown in the following figure:



[1]	DADF-P1	
[2]	Platen Cover Type J	*1
[3]	Finisher-U1	
[4]	Additional Finisher Tray-C1	
[5]	Inner 2-way Tray-E1	
[6]	Cassette Feeding Module-K1	
[7]	Duplex Unit-A1	
[8]	Power Supply Kit-Q1	*2
[9]	Document Tray-J1	
[10]	Card Reader-E1	

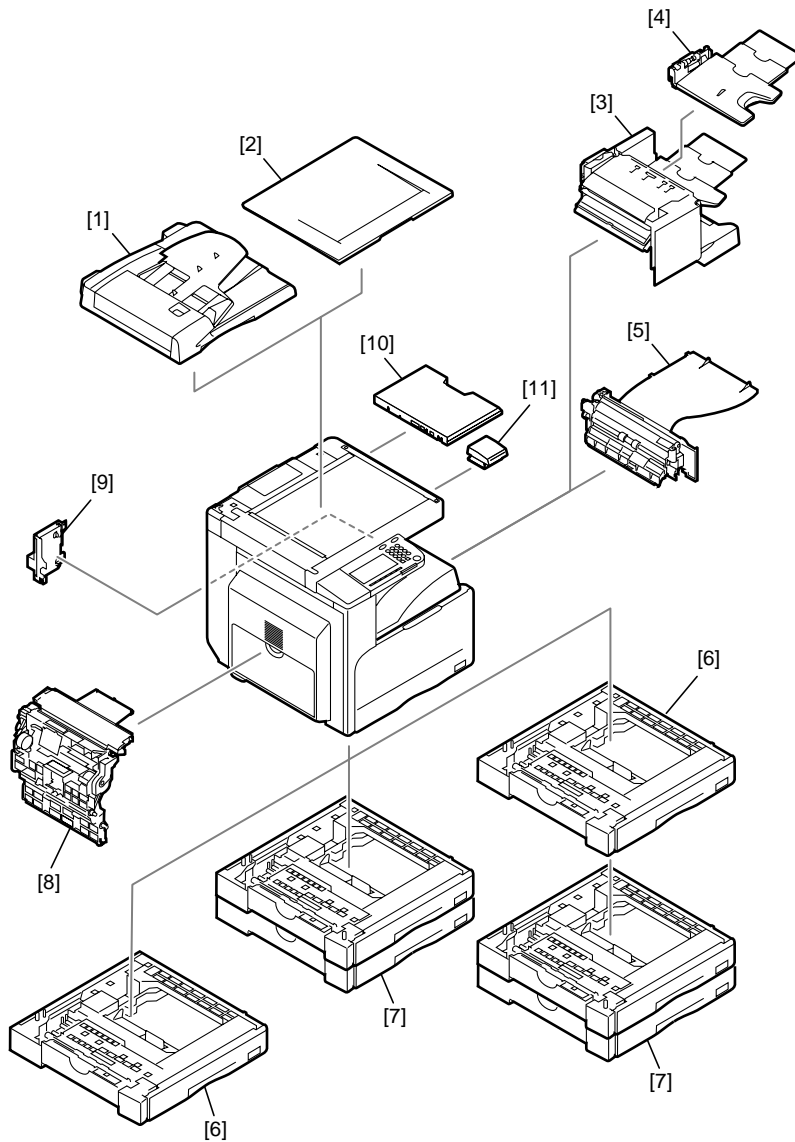
*1: This accessory comes standard with the models for Asia excluding Taiwan and the models for some Latin American countries.

*2: This accessory is required when the Finisher-U1, Inner 2-way tray-E1, Cassette feeding module-K1, or Duplex unit-A1 is installed. This accessory comes standard with the iR2020 for North America, Latin America, and Asia.

1.1.2 Pickup/ Delivery /Original Handling Accessories System Configuration (iR2016/iR2016J)

iR2016J / iR2016

The configuration is as shown in the following figure:



F-1-2

[1]	DADF-P1	
[2]	Platen Cover Type J	*1
[3]	Finisher-U1	
[4]	Additional Finisher Tray-C1	
[5]	Inner 2-way Tray-E1	
[6]	Cassette Feeding Module-J1	*2
[7]	Cassette Feeding Module-K1	*2
[8]	Duplex Unit-A1	
[9]	Power Supply Kit-Q1	*3
[10]	Document Tray-J1	
[11]	Card Reader-E1	

*1: This accessory comes standard with the models for Asia excluding Taiwan and the models for some Latin American countries.

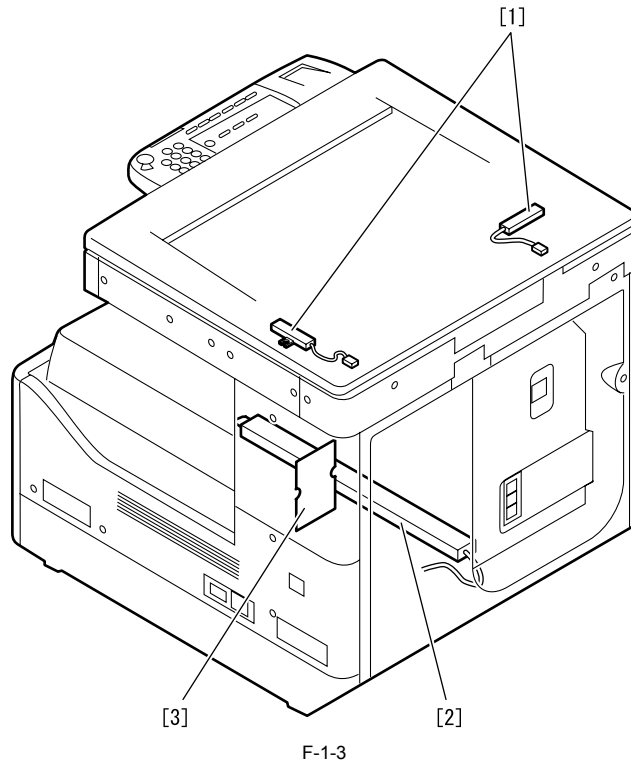
*2: A Cassette feeding module-J1 can be placed on the Cassette feeding module-K1 to use these cassette units as a 3-stage cassette unit.

*3: This accessory is required when the Finisher-U1, Inner 2-way tray-E1, Cassette feeding module-K1 or Duplex unit-A1 is installed. This accessory comes standard with the iR2016 for North America, Latin America and Asia.

1.1.3 Reader Heater/ Cassette Heater System Configuration

iR2016J / iR2016 / iR2020 /

The configuration is as shown in the following figure:



[1]	Reader Heater	*1
[2]	Cassette Heater	*1
[3]	Heater PCB	

*1: To operate the heaters, a heater PCB is required.

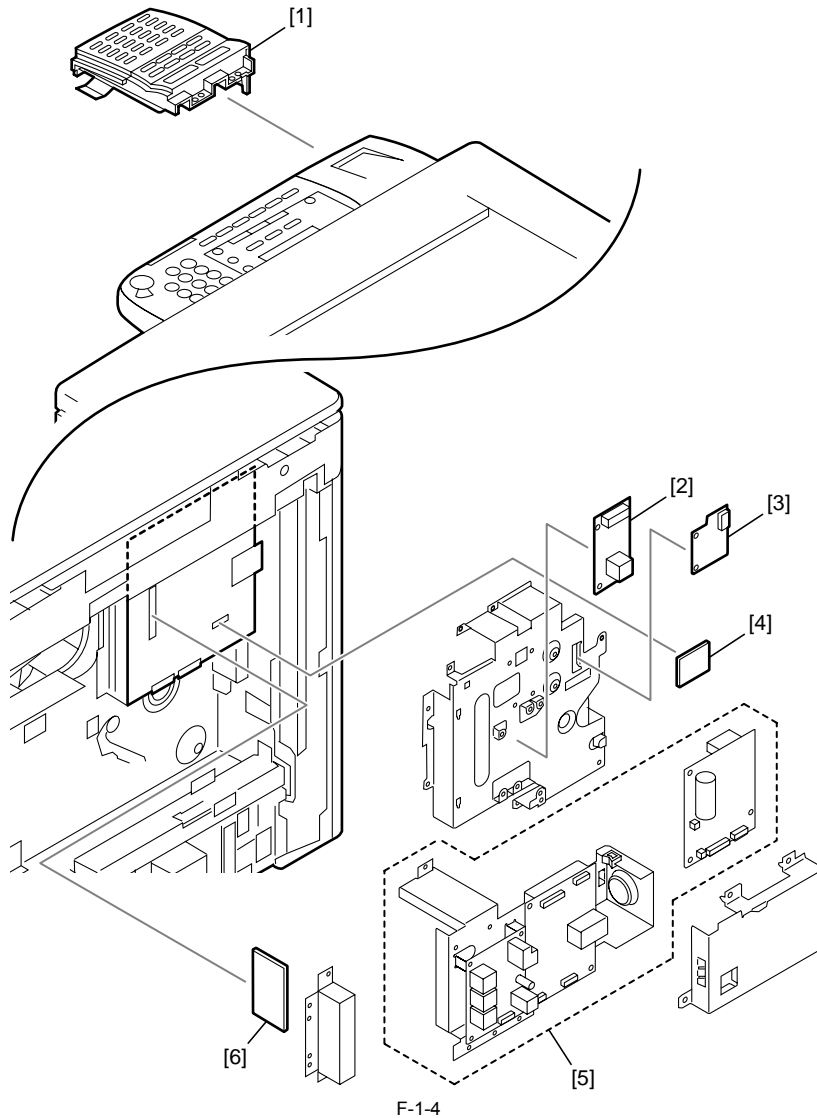
1.1.4 Printing/Transmitting Accessories System Configuration (iR2020J/iR2016J)

iR2016J /

The iR202J/iR2016J does not allow the print function and the transmission function to be added.

1.1.5 Printing/Transmitting Accessories System Configuration (iR2020/iR2016)
iR2016 / iR2020

The configuration is as shown in the following figure:



- | | | |
|-----|---------------------------|----|
| [1] | FAX Panel-A1 | *1 |
| [2] | UFR II LT Printer Kit-J2 | |
| [3] | Serial Interface Board-A1 | |
| [4] | PCL Printer Kit-J1 | *2 |
| [5] | Super G3 FAX Board-T1 | *1 |
| [6] | iR 256MB Expansion RAM-D1 | |

*1: To make the FAX feature effective, a FAX panel and a super G3 FAX board are required.

*2: The PCL printer kit contains a 256MB expansion RAM.

1.1.6 Functions of the Printing/Transmission Functions (iR2020/iR2016)

iR2016 / iR2020

The following is a brief explanation of the functions expected of the accessories; for details, see the chapters that follow:

- | | | |
|---|-----|---------------------------|
| UFR II print function (Resolution: 600dpi) | ==> | UFR II LT Printer Kit-J2 |
| UFR II print function (Resolution: 1200dpi) | ==> | UFR II LT Printer Kit-J2 |
| | | iR 256MB Expansion RAM-D1 |
| PCL print function | ==> | PCL Printer Kit-J1 |
| FAX function | ==> | Super G3 FAX Board-T1 |
| | | FAX Panel-A1 |
| Coin vender function | ==> | Serial Interface Board-A1 |

Sample manual. Download All pages at:

<https://www.arepairmanual.com/downloads/2005-2006-canon-ir20202016-series-printer-service-repair-workshop-manual/>