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Service Manual

iR1200 Series
iR 1510

Canon

May 18 2004

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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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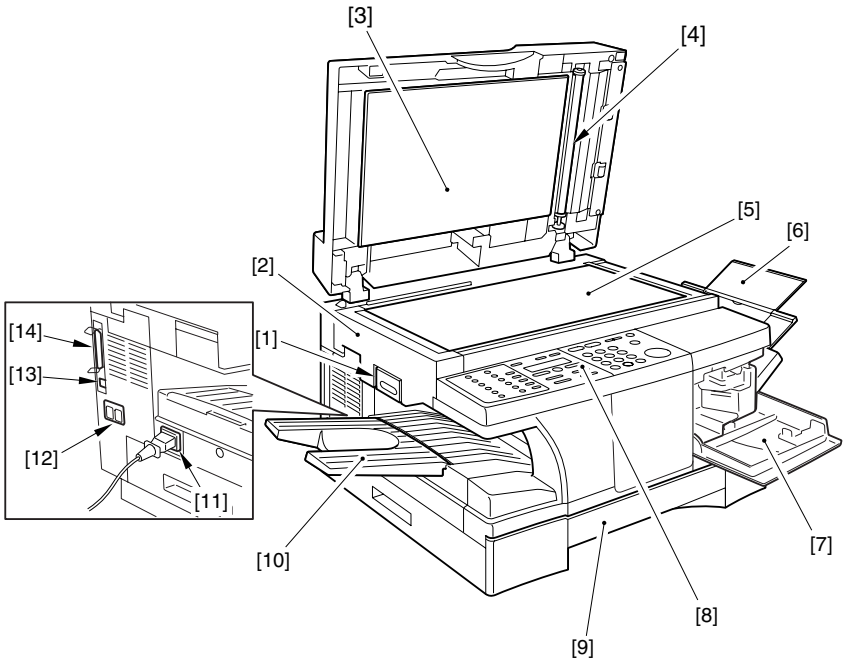
1.1 Product Specifications

1.1.1 Names of Parts

1.1.1.1 External View (ADF type)

0006-2706



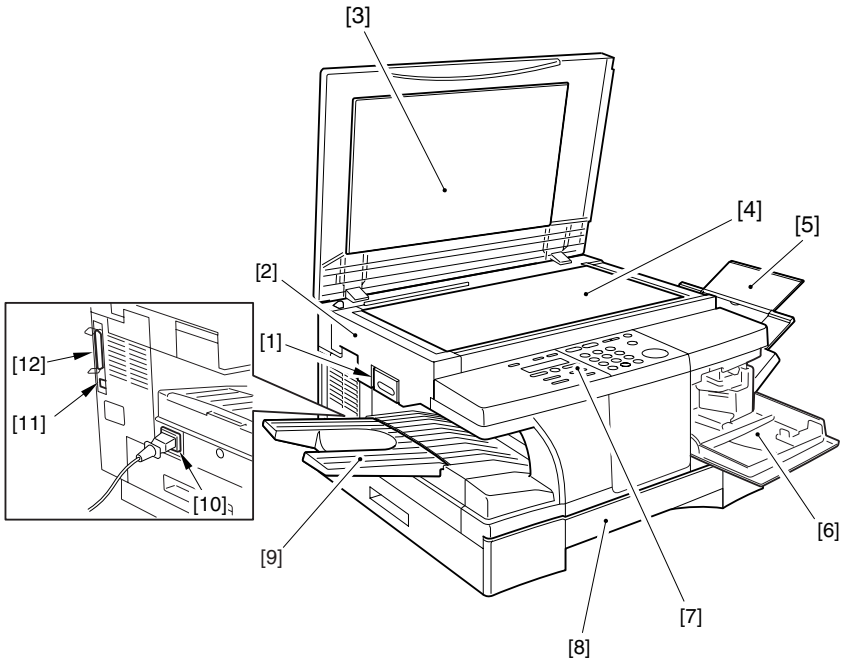
F-1-1

T-1-1

[1] Reader unit slide lever	[8] Control panel
[2] Reader unit	[9] Cassette
[3] White sheet	[10] Delivery tray
[4] White roller	[11] Power cord connector assembly
[5] Copyboard glass	[12] Modular cable connector assembly*1
[6] Manual feed tray	[13] USB cable connector assembly
[7] Toner supply cover	[14] Parallel interface cable connector assembly

*1: If equipped with fax functions.

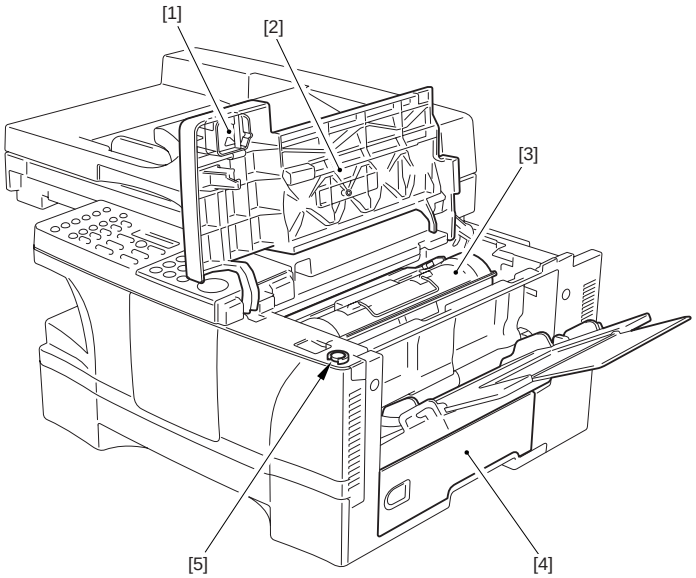
1.1.1.2 External View (copyboard type) 0006-2715



F-1-2

T-1-2

[1] Reader unit slide lever	[7] Control panel
[2] Reader unit	[8] Cassette
[3] Copyboard cover	[9] Delivery tray
[4] Copyboard glass	[10] Power cord connector assembly
[5] Manual feed tray	[11] USB cable connector assembly
[6] Toner supply cover	[12] Parallel interface cable connector assembly



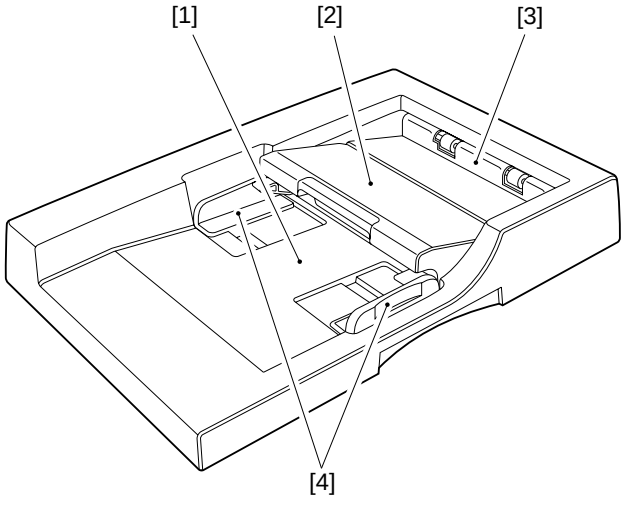
F-1-3

T-1-3

[1] Drum shutter stopper	[4] Right door
[2] Cartridge cover	[5] Shipping screw slot
[3] Cartridge	

1.1.1.3 External View (ADF)

0006-2722



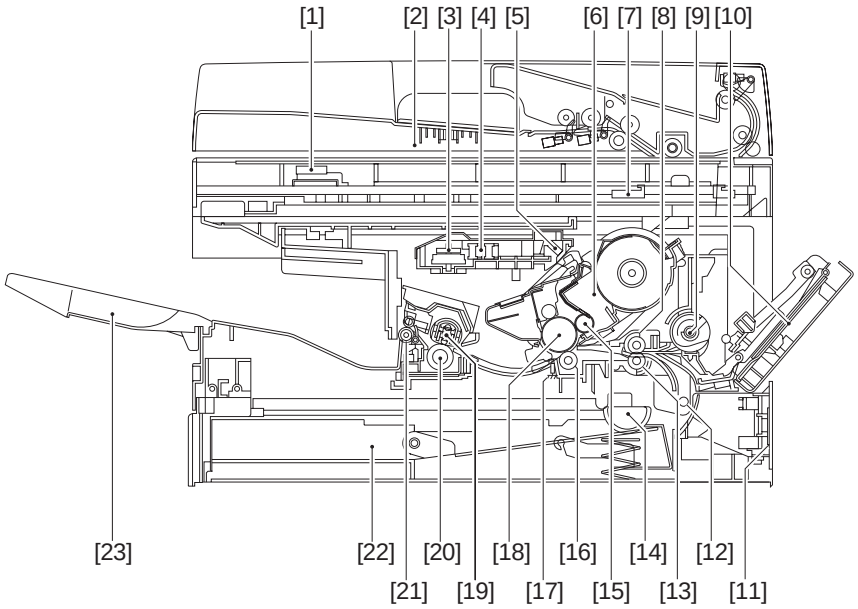
F-1-4

T-1-4

[1] Original placement area
[2] Open/close cover
[3] Delivery slot
[4] Slide guide

1.1.1.4 Cross Section (Body)

0006-2724



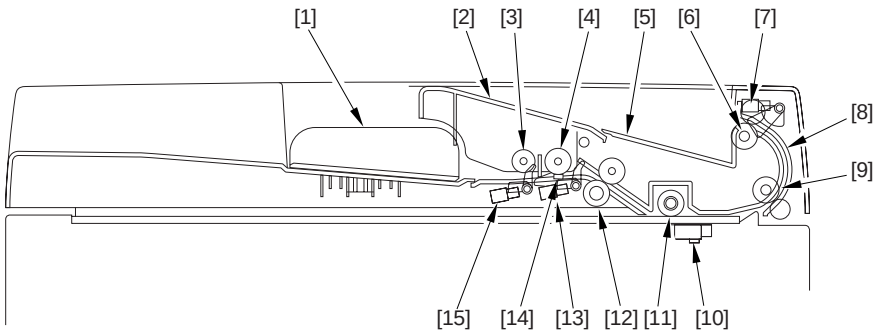
F-1-5

T-1-5

[1] Contact sensor
[2] Copyboard
[3] Laser scanner motor unit
[4] Laser unit
[5] Reflecting mirror
[6] Cartridge
[7] Reader unit
[8] Registration shutter
[9] Manual feed pickup roller
[10] Manual feed tray
[11] Right door
[12] Vertical path roller
[13] Registration roller
[14] Cassette pickup roller
[15] Developing cylinder
[16] Transfer charging roller
[17] Separation static eliminator
[18] Photopositive drum
[19] Fixing film unit
[20] Fixing pressure roller
[21] Delivery roller
[22] Cassette
[23] Delivery tray

1.1.1.5 Cross Section (ADF)

0006-2770



F-1-6

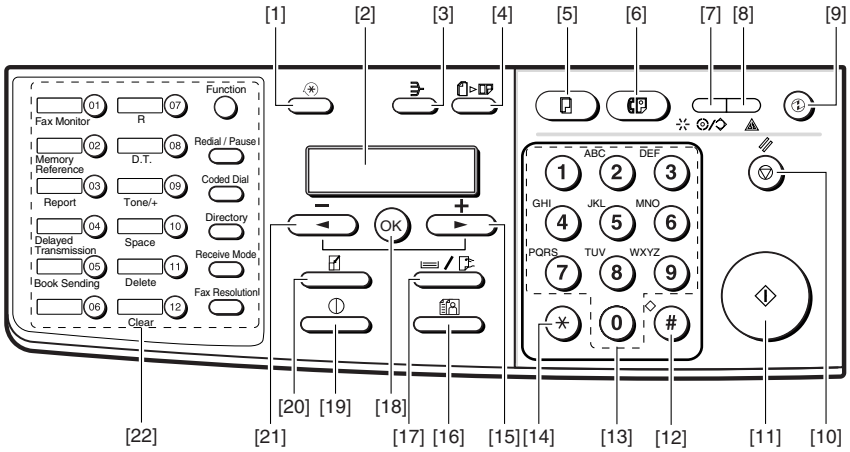
T-1-6

[1] Slide guide	[9] Original feed roller
[2] Open/close cover	[10] Contact sensor (body)
[3] Original pickup roller	[11] White roller
[4] Original feed/separation roller	[12] ADF registration roller
[5] Original delivery tray	[13] Registration sensor
[6] Original delivery roller	[14] Original separation pad
[7] Original delivery sensor	[15] Original sensor
[8] Delivery external guide	

1.1.2 Using the Machine

1.1.2.1 Control Panel

0006-2629



F-1-7

T-1-7

[1] Additional Functions Key

Press it to bring up the user mode menu for making various settings and registering items. The key flashes when the machine is in user mode menu, and goes OFF in response to a press.

[2] LCD

Use it to refer to the Copy/Fax basic screen, various Settings screens, and error messages.

[3] Collate Key

Press it to select sorting. The key remains ON when the machine is in sort mode, and goes OFF in response to a press.

[4] 2 on 1 Key

Press it to reduce 2 originals automatically and on a single sheet.

[5] Copy Key*1

Press it when using a copier function. The key remains ON when the machine is in copier mode.

[6] Fax Key*1

Press it when using a fax function. The key remains ON when the machine is in fax mode.

*1: If equipped with fax functions.

[7] In Use/Memory Lamp*1

It goes ON when an original has been read, a delayed fax transmission has been selected, or memory reception has been used. Further, it flashes while fax transmission is under way.

[8] Alarm Lamp

It flashes when a fault has occurred in the machine (e.g., paper jam).

[9] Energy Saver Key

Press it to manually select or deselect energy save mode. It remains ON when the machine is in energy save mode, and goes OFF when the machine leaves the mode.

[10] Stop/Reset Key

Press it to stop making copies or transmitting a fax. Or, press it to reset the machine white making mode settings (i.e., to return copier/fax mode to standard mode).

[11] Start Key

Press it to start making a copy or sending a fax.

[12] # Key

Press it to enter a "symbol"when registering fax/telephone number or when entering a fax telephone number.

[13] Keypad

Use it to enter a copy count or a value for Zoom, or when entering a fax telephone number.

[14] * Key

Press it to generate a tone signal from a dial (pulse) circuit when using a fax function.

[15] Right Arrow/+ Key

Press it to add a value when making various settings or to indicate the next setting or an item.

[16] Image Quality Key

Press it to select a copy image quality type (text, text/photo, photo).

[17] Paper Select Key

Press it to select a source of paper (drawer (cassette), stack bypass (manual feed)).

[18] OK Key (Set Key*2)

Press it to store various selections or settings.

[19] Exposure Key

Press it to change the copy density. (auto, or manual from 9 steps)

[20] Enlarge/Reduce Key

Press it to select a default Enlarge/Reduce ratio or Zoom.

[21] Left Arrow/- Key

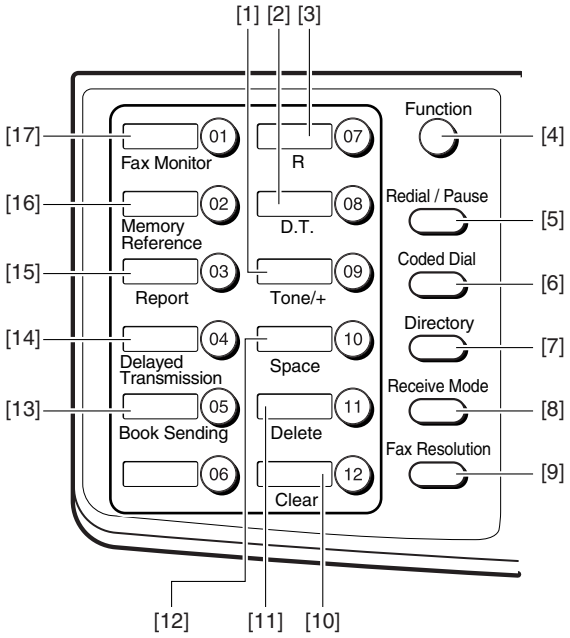
Press it to subtract a value when making various settings or to indicate the previous setting or an item.

[22] One-Touch/Fax Function Key (after a press on the Function key)*1

Press it to dial a pre-registered telephone number. A press on the Function key will cause it to serve as the Fax Function key.

*1: If equipped with fax functions.

*2: Only for the iR1310/1330/1370F models.



F-1-8

T-1-8

[1] Tone/+ Key*1

Press it to generate a tone from a dial circuit. Press it to enter a + symbol when registering a telephone number.

[2] D.T. Key*1

Press it to use a D.T. function.

[3] R Key*1

Press it to use an R function.

[4] Function Key*2

Press it to use the function key. A press on the Function key will cause the key to go ON, and another press will cause it to go OFF.

[5] Redial/Pause Key*2

Press it to redial a number that has been dialed using the keypad (as in fax wait). When entering a telephone number, it services as a Pause key.

*1: Function key is ON.

*2: If equipped with fax functions.

[6] Coded Dial Key*1

Press it to use speed dialing.

[7] Directly Key*1

Use it to search for a one-touch or speed number using a name.

[8] Receive Mode Key*1

Press it to change the reception mode (faxtel, faxonly, DPRD*3, manual, ansmode).

[9] FAX Resolution Key*1

Use it to change the transmission resolution (standard, fine, photo, super fine, ultra fine).

[10] Clear Key*2

Press it to clear various settings that have been registered or made. Also, press it to delete all telephone number/text input.

[11] Delete Key*2

Use it to delete a single character input.

[12] Space Key*2

Press it to put a space in a telephone number or a string of characters.

[13] Book Send Key*2

Press it to transmit multiple originals using the copyboard glass.

[14] Delayed Transmission Key*2

Press it to set a transmission time.

[15] Report Key*2

Press it to print out a communication-related report, dial list, user data list, or document memory list.

[16] Memory Reference Key*2

Press it to check the file that has been processed by memory transmission or memory reception.

[17] Fax Monitor Key*2

Press it to check the state of a fax communication.

*1: If equipped with fax functions.

*2: Function key is ON.

*3: Only for the iR1370F model.

1.1.3 User Mode Items

1.1.3.1 Outline 0006-2653

A press on the Additional Functions key in the control panel brings up the user mode menu. On the user mode menu, press the left/right arrow key to make menu settings or increase/decrease a value; press the OK key to store the selected input.
The user mode menu is constructed as follows:
(The factory default setting is in bold face.)

1.1.3.2 COMMON SETTINGS 0007-1172

1. DEFAULT SETTINGS*1

T-1-9

COPY

FAX

2. SW AFTER AUTO CLR*1

T-1-10

DEFAULT MODE

CURRENT MODE

3. VOLUME CONTROL*1

T-1-11

1.KEYPAD
VOLUME

ON

VOLUME1 to 3 (**1**)

OFF

2.ALARM
VOLUME*1

ON

VOLUME1 to 3 (**1**)

OFF

3.TX DONE TONE

ON

VOLUME1 to 3 (**1**)

ERROR ONLY

VOLUME1 to 3 (**1**)

OFF

4.RX DONE TONE

ON

VOLUME1 to 3 (**1**)

ERROR ONLY

VOLUME1 to 3 (**1**)

OFF

*1: Only if equipped with fax functions.

T-1-12

5.PRINTING END TONE

ON

VOLUME1 to 3 (1)

ERROR ONLY

VOLUME1 to 3 (1)

OFF

6.SCANNING END TONE

ON

VOLUME1 to 3 (1)

ERROR ONLY

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VOLUME1 to 3 (1)

OFF

7.CALLING VOLUME

1 to 3 (**2)**

8.LINE MONITOR VOL.

ON

VOLUME1 to 3 (**2)**

OFF

4. STACK BYPASS SIZE

T-1-13

OFF

BYPASS PAPER SIZE

FREE SIZE

SET ON LOADING

ON

BYPASS PAPER SIZE

A4*2

B5

A5

LGL

LTR*3

STMT

CUSTOM PAER SIZE

1.VERTICAL SIZE 76 to 216mm (**216)**

2.HORIZONTAL SIZE 127 to 356mm (**356)**

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