

# Service Manual

## **Canon Color Resolution Switching Board-A2**

**Canon**

Mar 22 2004



## 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.
 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 Specifications

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## 1.1 Product composition

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### 1.1.1 Product configuration

0006-2529

The product configuration of this kit is as described below.

- Resolution Switching Board-A2

## 1.2 Specifications

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### 1.2.1 List of specifications/ functions

0006-2530

This kit has the following optional function boards.

- Transmission function (together with Color Universal Send Kit-C1P/C1U)

The main functions of this kit are as described below.

- Huffman encoding/ decoding
- JBIG encoding/ decoding
- Binary resolution conversion (bicubic method)

The board has the equivalent functions to the Resolution Switching Board - A1.

This kit, however, complies with Restriction of Hazardous Substances directive (RoHS), published for the fifteen EU countries. Therefore, the six hazardous substances -- lead, mercury, cadmium, hexavalent chromium, PBB, and PBDE -- are not used from the production to disposal of the device.

#### **Reference**

RoHS will be come into force on July 2006.

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# Chapter 2 Installation

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## 2.1 Points to Note About Installation

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### 2.1.1 Installation Notice

0006-2531

To see whether the image resolution board has been properly recognised, check the **service mode>COPIER>Display>ACC-ST5>SEND** display. If the board has been properly recognised, the display will change from 0 to 1.



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