

Service Manual

Canon Color USB Interface Board-A3

Canon

Mar 22 2004

Application

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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 Specifications

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1.1 Product composition

1.1.1 Product configuration

0006-2515

The product configuration of this kit is as described below.

- USB Interface Board-A3

1.2 Specifications

1.2.1 Specifications and functions

0006-2516

The USB Interface Board-A3 is a kit designed as an optional board that enables local USB connection between the printer unit and a PC, and it is characterized by the following:

- USB full speed operation (equivalent of USB 1.1)
- supported image data

Color Network UFR Printer Kit-C1 in use: GDI-UFR data only

Color Network Printer Expansion Kit-C1 in use: GDI-UFR/PCL/PS data

Color Network Multi-PDL Printer Kit-C1 in use: GDI-UFR/PCL/PS data

The board has the equivalent functions to the USB Interface Board-A2. 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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2.1 Points to Note About Installation

2.1.1 Points to Note About Installation

0006-2812

The USB Interface Board-A3 operates only when combined with any of the expansion kit indicated previously. It is important to keep in mind that it does not operate on its own.

To make sure that the USB interface board is correctly recognized by the host machine at time of installation, press the Counter Check key and check the device composition. (It is recognized properly if the notation **USB** is indicated as an accessory.)

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