

Service Manual

Canon BW **Expansion Bus-C1**

Canon

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 Installation

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1.1 Points to Note About Installation

1.1.1 Points to Note About Installation

0009-5060

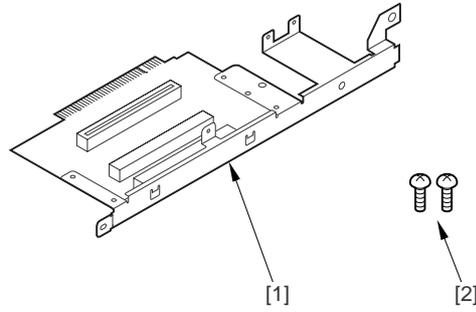
Take note of the following to avoid damaging the PCBs by static charges:

1. Put on a grounded wrist strap before starting the work. If no grounding terminal is found, use the frame of the main body.
2. Keep each PCB in an anti-static bag until immediately before it is used.
3. When you handle a PCB, be sure to hold the frame of the PCB (i.e., base material area) without touching terminals.
4. If you must place a PCB temporarily, be sure that the area is treated against static charges (e.g., anti-static mat). Otherwise, place it on or in an anti-static bag. Do not place it on a metal plate.
5. Be sure not to leave insulators which are subject to being charged in the work area.

1.2 Checking components

1.2.1 Checking accessories

0009-3460



F-1-1

T-1-1

- | | | |
|-----|-------------------------|------|
| [1] | Expansion BUS-C1 | 1pc |
| [2] | Truss head screw (M3x6) | 2pcs |

1.3 Installation procedure

1.3.1 Installation procedure

0009-3462

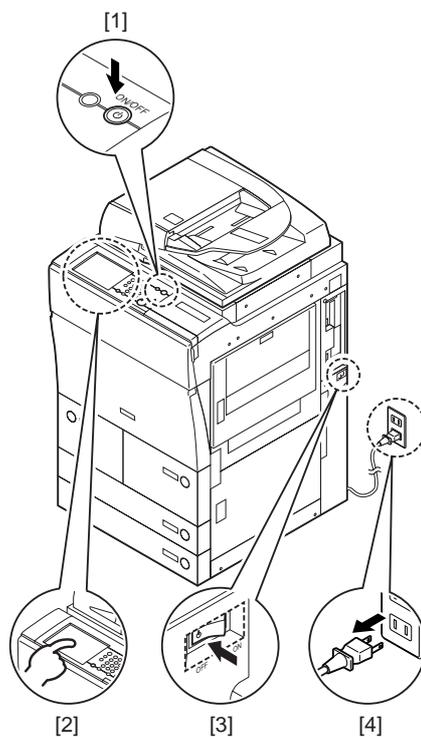
1. Turn off the power of the host machine



How to turn off the main power:

When turning off the main power, follow the procedure below in order to protect the hard disk of the machine.

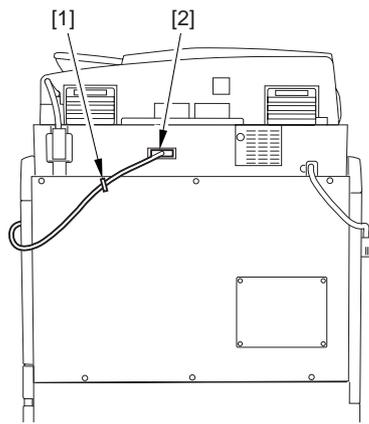
1. Press the power switch on the control panel for 3 sec or more.
2. Operate the touch panel following the instruction display for the shut down sequence so that the main power can be ready for turning off.
3. Turn off the main power.
4. Unplug the power cable (for outlet) from the wall outlet.



F-1-2

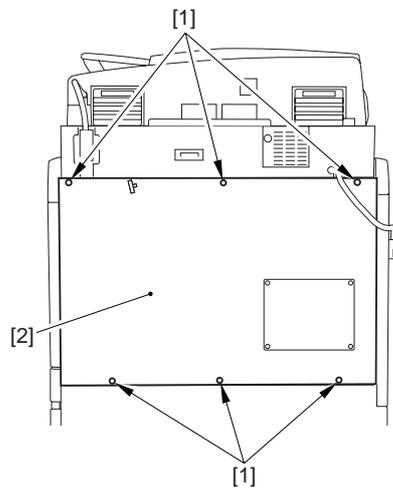
2. Installation procedure

- 1) Open the cable clamp [1] and release the reader communication cable [2].



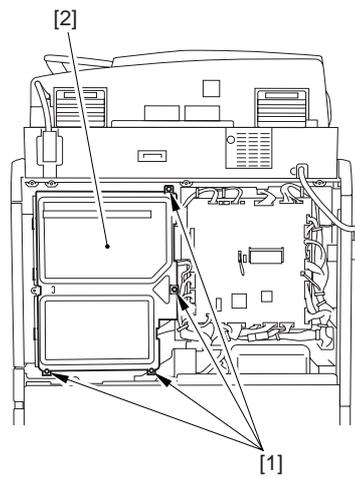
F-1-3

2) Unscrew 6 screws [1] and detach the upper rear cover [2].



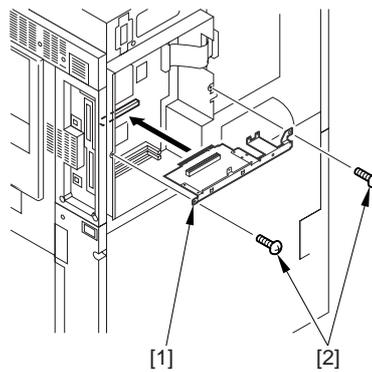
F-1-4

3) Unscrew 4 screws [1] and detach the main controller box cover [2].



F-1-5

4) Insert the Expansion BUS-C1 into the connector on the main controller PCB and fix it using 2 screws [2].



F-1-6

- 5) Attach the main controller box cover using 4 screws.
- 6) Attach the upper rear cover using 6 screws.
- 7) Plug the reader communication cable into the outlet of the host machine.
- 8) Run the reader communication cable through the cable clamp and then clamp the cable.

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