

# Installation Procedure

**Paper Deck**

**Paper Deck-Q1**

**Canon**



## 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.

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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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# Contents

## 第 1 章 Installation Procedure

1.1 Unpacking and Chacking the Components .....	2
1.1.1 Unpacking and Checking the Components .....	2
1.2 Installatiopn Procedure .....	4
1.2.1 Attaching to the Host Machine .....	4
1.3 Making Adjustments .....	12
1.3.1 Switching the Paper Size .....	12
1.3.2 Adjusting the Horizontal .....	13
1.3.3A. Adjusting Horizontal Registration of the 1st Face (Mechanical Adjustment) .....	13
1.3.4 Adjusting Horizontal Registration of the Back Side Paper (2nd face) .....	14
1.3.5 Adjusting the Mounting Position of the Front Cover .....	15
1.3.6 Adjusting the Side Roller Height .....	15





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# Chapter 1 Installation Procedure

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[4]	Latch Support (Front)	1pc.
[5]	Latch Support (Rear)	1pc.
[6]	Deck Mount	1pc.
[7]	Roller Support Plate	1pc.
[8]	Paper Size Label	1pc.
[9]	Fixing Hardware	2pc.
[10]	Binding Screw(M4x6)	17pc.
[11]	RS Tightening Screw (M4x33)	5pc.
[12]	Right Cover	1pc.
[13]	Open Label	1pc.
[14]	Slope Guide (Upper)	1pc.
[15]	Connect Stay	1pc.
[16]	Wire Saddle	1pc.
[17]	Deck Cover (Right Front)	1pc.
[18]	Mount Protection Cover	2pc.
[19]	Lifter Plate Sheet (A4 machine only)	1pc.

## 1.2 Installatiopn Procedure

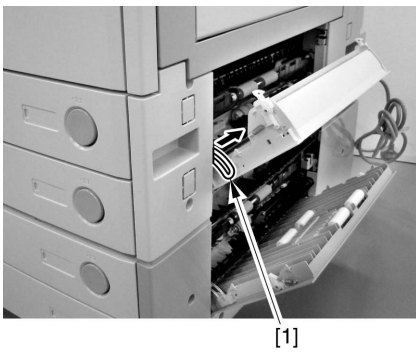
### 1.2.1 Attaching to the Host

Machine

0004-6640

1)Remove the inner blanking cover of the host machine.

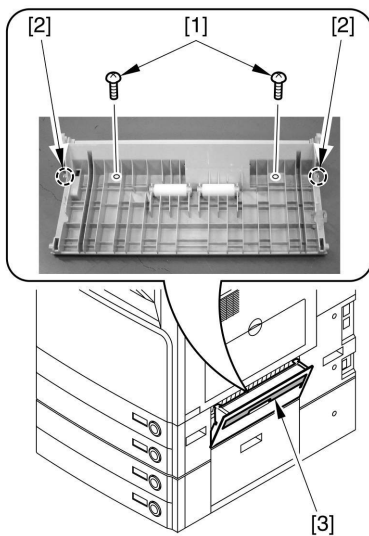
1-1)Open the right door of the host machine, and open the lower right door of the 2-level cassette pedestal; Remove the lock [1] to the arrow direction shown in the fig.



F-1-2

1-2)Remove the right door.

1-3)Remove the 2 screws [1] of the right door, and detach the inner blanking plate [3] while pushing the 2 claws [2].

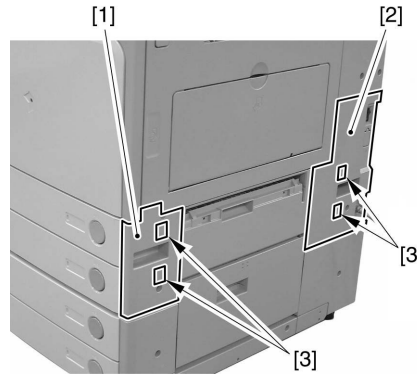


F-1-3

1-4)Attach the right door to the main unit, and then attach the lock.

2)Remove the 2 right covers (lower right [1], lower rear[2]) of the host machine.

3)Remove the 4 blanking parts [3] found at the 2 right covers with nippers or the like.

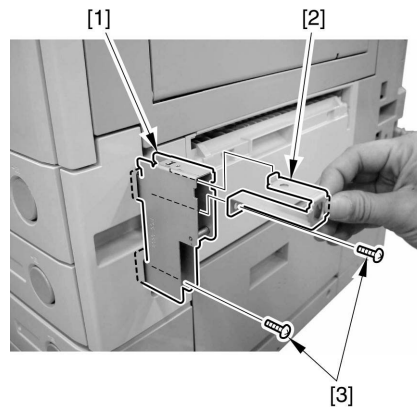


F-1-4

4)Attach the 2 right covers.

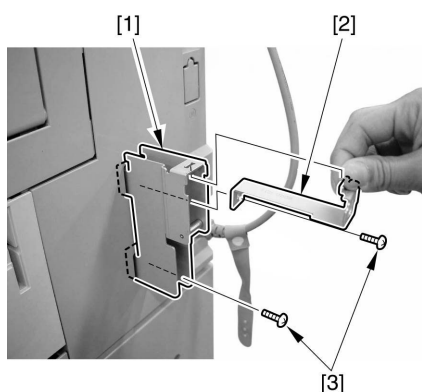
5)Close the right door of the host machine; close the lower right door.

6)Attach the latch support [1] and pin support (front) [2] with the 2 screws (M4x6) [3] included in the package.



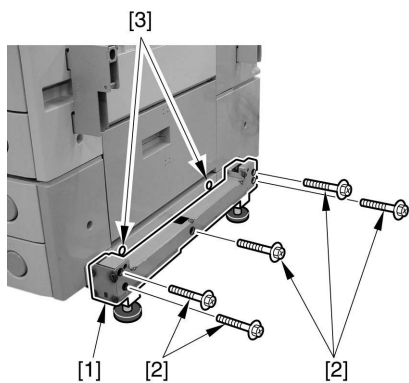
F-1-5

7)Attach the latch support [1] and pin support (rear) [2] with the 2 screws (M4x6) [3] included in the package.



F-1-6

8) Attach the connect stay [1] to the cassette pedestal with the 5 screws (M4X33) [2] included in the package.



F-1-7

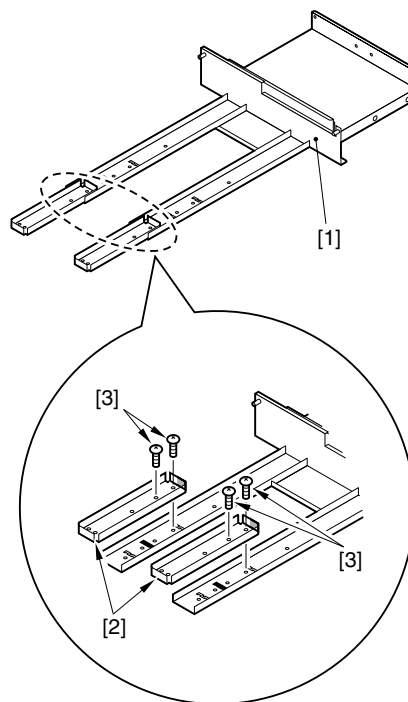
**⚠** If it is hard to tighten a screw to the connect stay, loosen the 2 fixing screws [3] on the cover, and then attach the connect stay; after that, tighten back the fixing screws.

9) Rotate the adjusters (from front and rear) [1] to secure them in place.

**⚠** There is a possibility of malfunction if the adjusters are improperly adjusted. Be sure to contact the adjusters on the floor.

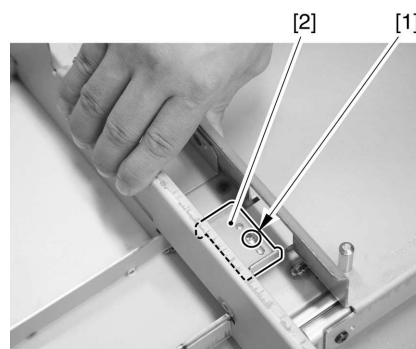
10) Remove the 2 screws [3] of the bottom stay

extension plate [2] found on the deck mount [1], and shift the position of the plate to the groove marked "F"; secure the plate in place with the 2 screws. (Perform both of the front and rear extension plates)



F-1-8

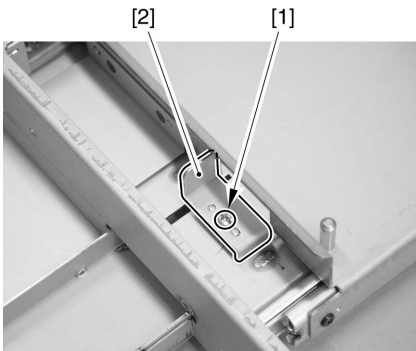
11) Remove the screw [1], and detach the stopper [2] of the deck mount.



F-1-9

**⚠** To prevent an unintentional slide of the deck mount, hold the 2 plates facing the deck mount with your hand when removing the stopper

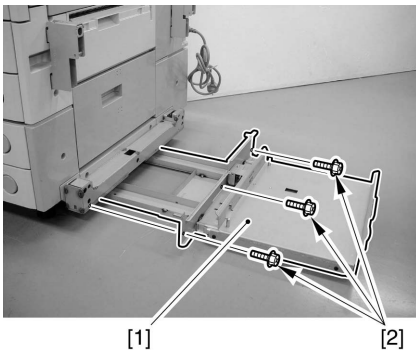
12) Turn over the detached stopper [2], and tighten the screw to the same hole to secure it [1] in place.



F-1-10

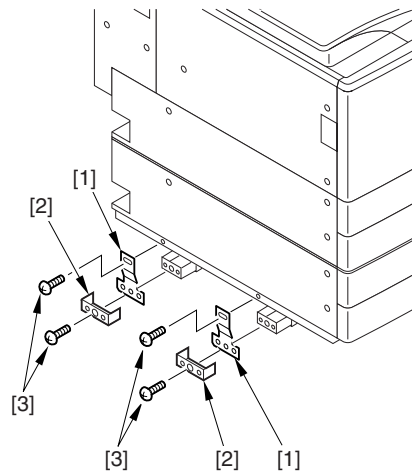
13) From the right side of the host machine, slide the deck mount [1] under the host. After that, insert the pins of the deck mount into the 2 holes of the connect stay while lifting up the right side of the deck mount slightly.

14) Secure the deck mount to the host machine with the 3 screws (M4x6) [2] included in the package.



F-1-11

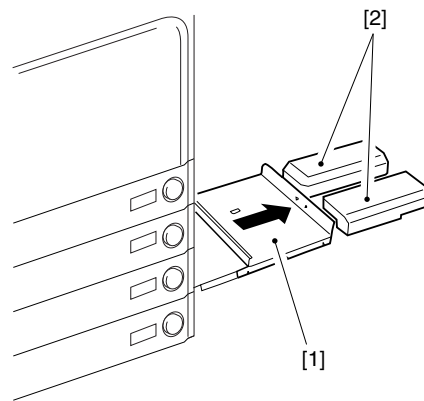
15) Attach the 2 fixing hardware [1] and mount protection cover [2] to the deck mount using one screw each (M4x6) [3]; secure the upper face of the fixing hardware to the host machine with the screw (M4x6) [3] included in the package.



F-1-12

16) Slide out the deck mount [1] to the right direction (away from the host machine) with your hand.

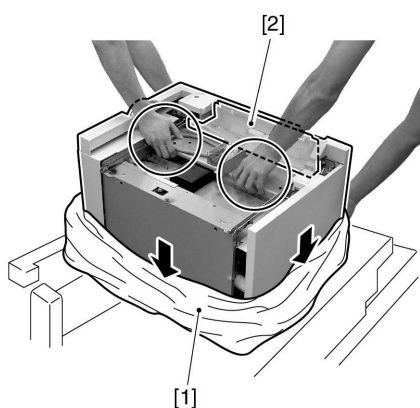
17) Place the cushioning materials [2] included in the package next to the deck mount.



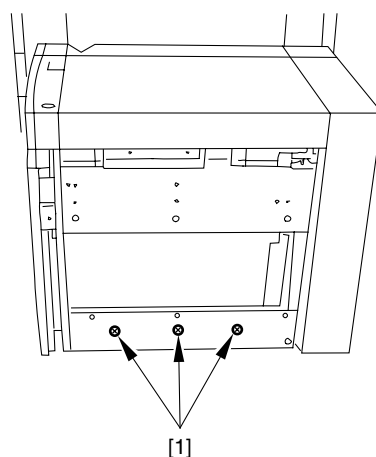
F-1-13

18) Remove the plastic wrapping [1] covering the paper deck Q1; hold the positions specified in the fig. below, and place the machine onto the cushioning materials prepared at step 17).

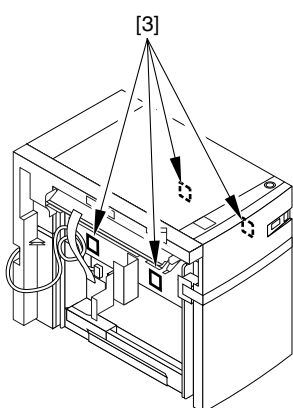
- ⚠ 1. The area [2] shown in Fig. below may be deformed; therefore, be sure not to hold the area.
- 2. When lifting up the machine, be sure to hold the part where the grip indication labels [3] are attached and to lift it up with a group of 2 or more people.



F-1-14

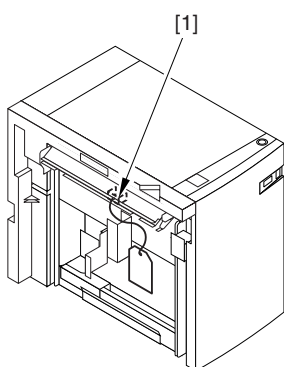


F-1-17



F-1-15

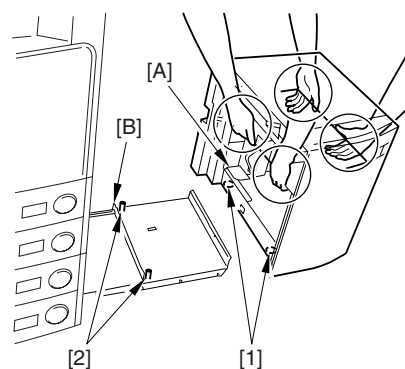
19) Remove the fixing material [1] from the machine.



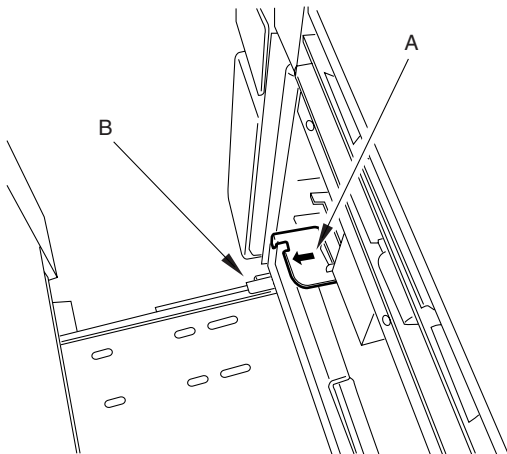
F-1-16

20) Remove the 3 screws [1] mounting on the right side. The detached 3 screws will be used at step 32).

21) Hold the positions (i.e., grip indication label areas) specified in the fig. below, and place the machine onto the deck mount by matching the machine's holes [1] to the pins [2] of the deck mount. For ease of attachment, match the arrow (A) of the lower left stay to the edge (B) of the deck mount at this time.

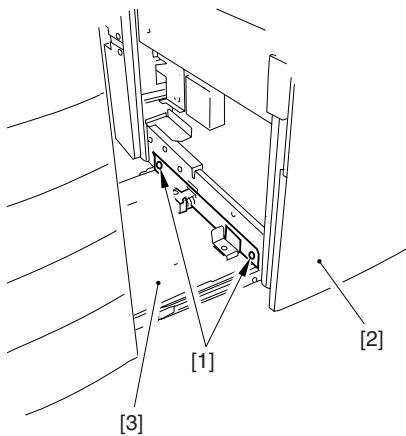


F-1-18

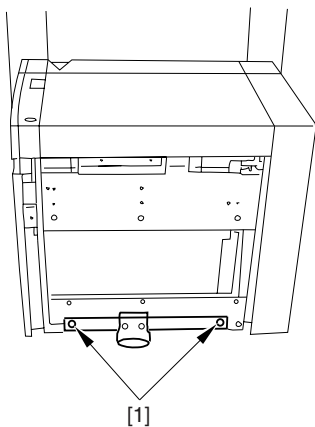


F-1-19

22) Secure the machine to the deck mount with the 4 screws (M4x6) [1] included in the package.

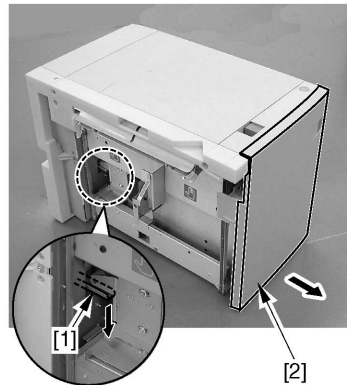


F-1-20



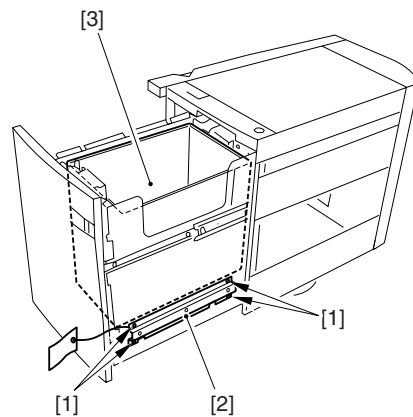
F-1-21

23) To open the housing unit [2] of the machine, push down the latch plate [1] found at the housing unit.



F-1-22

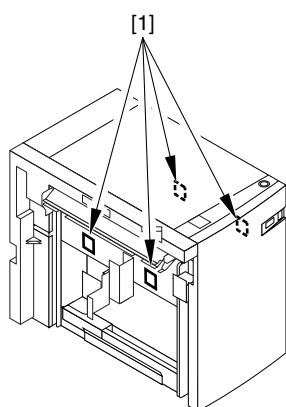
24) Detach the 4 screws [1], and remove the fixing material [2] and cushioning material [3] placed inside the housing unit. The fixing material will not be used, but the detached 4 screws will be used at step 30).



F-1-23

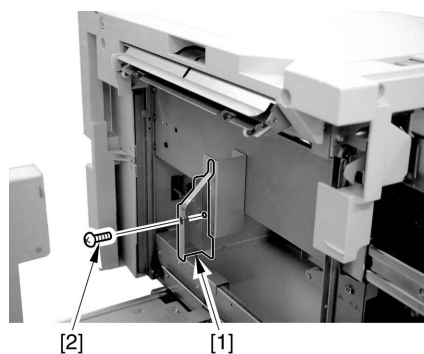
25) Remove the 4 grip indication labels [1] placed on the machine.





F-1-24

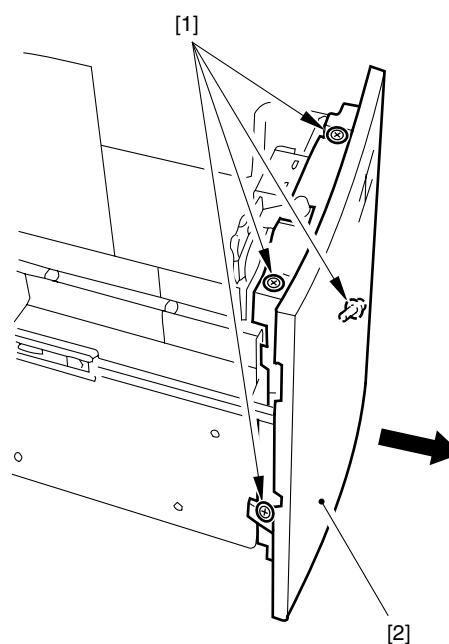
26) Attach the slope guide (Upper) [1] with the screw (M4x6) [2] included in the package.



F-1-25

27) Refer to a scale marking around the mounting screw [1], and keep the mounting position of the front cover in mind.

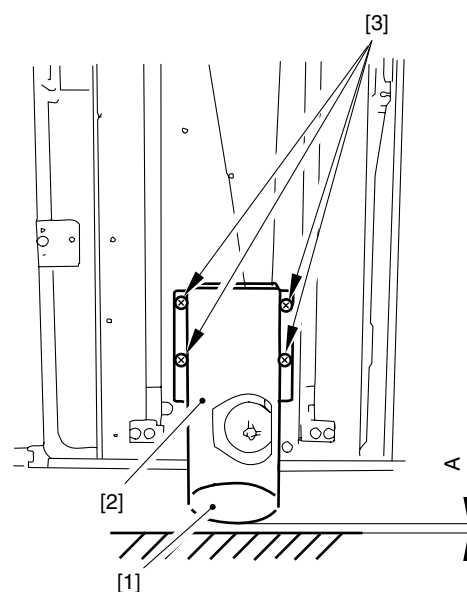
28) Loosen the 4 screws, and detach the front cover [2] to the front direction.



F-1-26

29) Attach the paper deck unit to the host machine.

30) Secure the roller support plate [2] with the 4 screws [3] detached at step 24) so that the width A (between the roller [1] and the floor) is set to approx. 3mm with the housing unit opened.



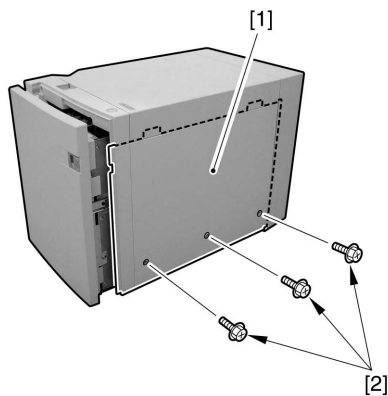
F-1-27

31) Attach the front cover [1].

32) Attach the right cover with the 3 screws [2]

detached at step 20).

33) Slide out the compartment.



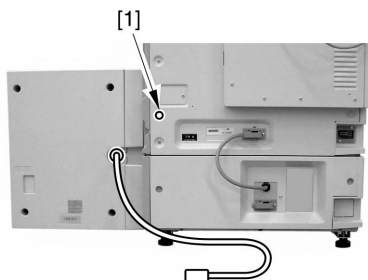
F-1-28

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**⚠** Be sure to disconnect the power plug of the host machine.

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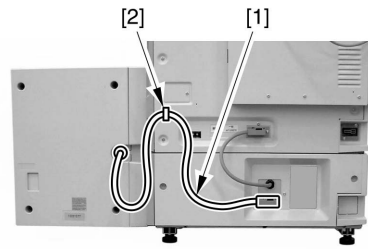
34) Peel off the face sticker [1] of the host machine.



F-1-29

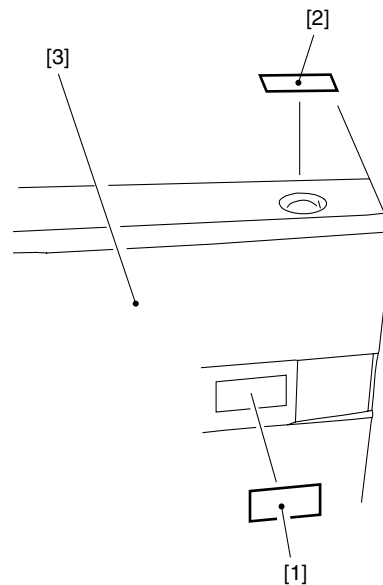
35) Remove the connector cover at the rear of the cassette pedestal, and connect the connector of the machine.

36) Fit the included wire saddle [2]; then, fix the cable in place using the saddle.



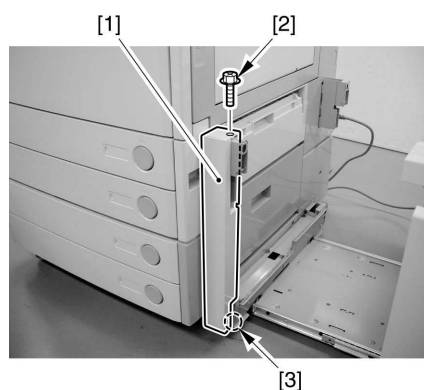
F-1-30

37) Confirm a user's request, and attach the paper size label [1] and open label [2] to the front cover [3].



F-1-31

38) Detach the deck from the host machine; then, mount the deck right front cover [1] using the included screw (M4x6) [2]. Fit the claw [3] of the bottom of the cover on the connector stay; then, fix it in place using a screw.



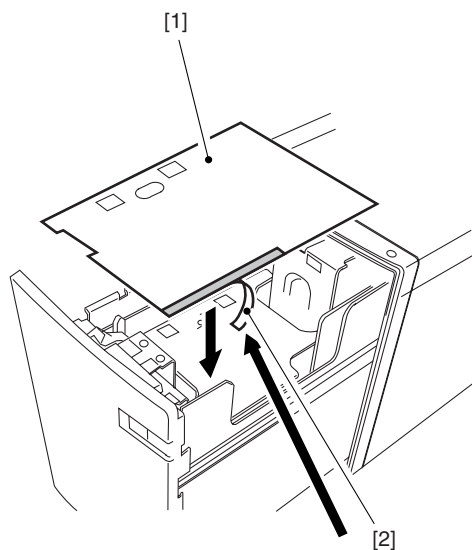
F-1-32

Perform the following steps 39) and 40) in case the paper size is A4.

39) Attach the deck to the host machine; then, turn on the host machine.

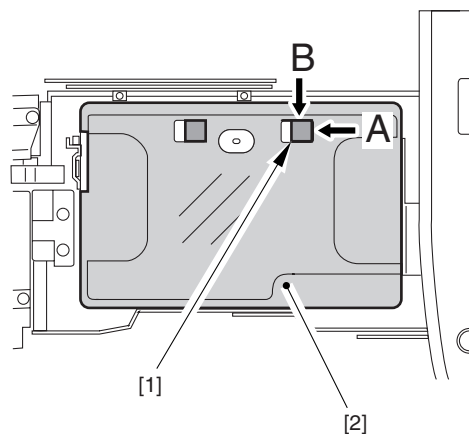
When the Release button of the deck has stopped flashing, press the deck compartment release button, and slide out the compartment.

40) Peel off the released paper [2] of the lifter plate sheet [1] included in the package, and attach the sheet to the lifter plate shown in the fig.



F-1-33

the rear separation sheet [1]. At this time, check to make sure that the lifter plate sheet does not run onto the separation sheet at the front side of the paper sensor's groove.



F-1-34

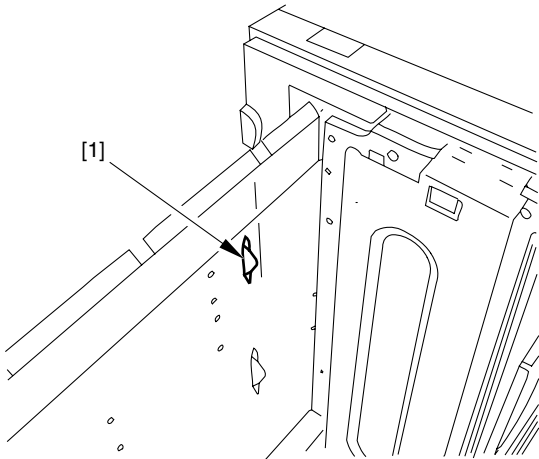
**⚠** When attaching the lifter plate sheet, place the double-sided tape onto the lifter plate while pressing the lifter plate sheet [2] to A and B parts of

## 1.3 Making Adjustments

### 1.3.1 Switching the Paper Size

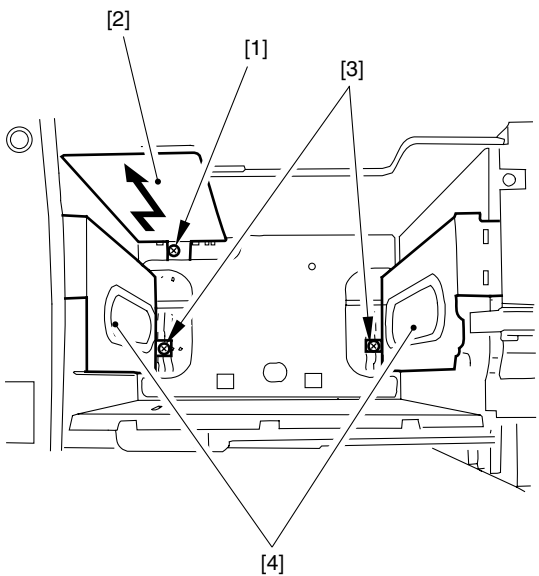
0004-6771

- 1) Open the housing unit.
- 2) When the machine's lifter is upside, turn ON the power switch of the host machine, and push the sensor lever [1] of the loading paper positioning sensor found inside the housing unit; move down the lifter to its bottom level.



F-1-35

- 3) Remove the screw [1], and attach the paper end plate [2] by matching its mounting position to new paper size. (The paper end plate is not used for the LTR size. The paper sizes are marked on the bottom plate.)
- 4) Likewise, remove the screw [3], and attach the end plates (right, left) [4] by matching their mounting positions to new paper size.



F-1-36

5) Set up service mode of the host machine (COPIER>OPTION>ACC>DK-P) to suit the paper size.

0:A4

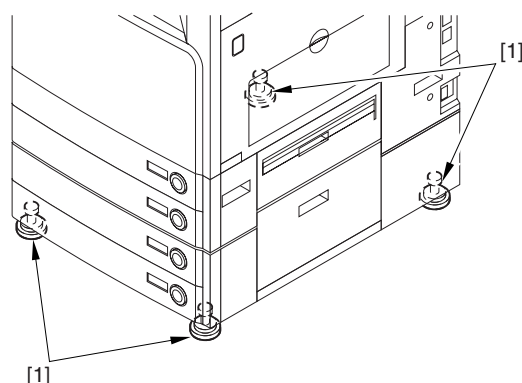
2:LTR

**▲** Be sure to turn OFF and ON the host machine after changing the setting.

### 1.3.2 Adjusting the Horizontal

0004-6789

1) Check to make sure that the 4 adjusters [1] of the host machine's pedestal are well contacted on the floor.



F-1-37

2) Connect the power plug of the host machine, and turn ON the power switch.

3) After "WAIT" of the host machine is completed, perform a paper pick-up operation from the machine to check the operation.

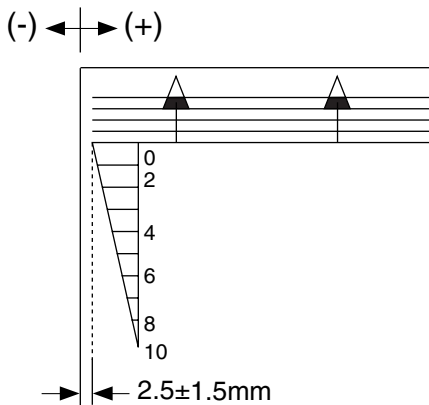
4) Make double-sided copy/print using the test image, and check to make sure that the blank (front side) from the image is within 2.5 +/-1.5 mm.

Perform the following steps if the blank (front side) is out of 2.5 +/-1.5 mm.

### 1.3.3 A. Adjusting Horizontal Registration of the 1st Face (Mechanical Adjustment)

0004-6792

1) Make a copy from the machine, and check to make sure that the blank (front side) is 2.5 +/-1.5 mm.



F-1-38

Perform the following adjustment if the horizontal registration is out of 2.5 +/-1.5 mm.

2) Pull out the housing unit.

(Refer to step 23))

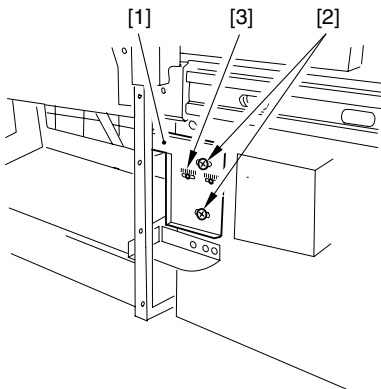
3) Detach the deck from the host machine.

4) Adjust the mounting position of the latch support plate [1] of the deck open solenoid (SL2D) found at the rear left with the 2 screws [2].

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**⚠** At this time, it is better to use the scale [3] of the latch support plate as a guide.

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F-1-39

### 1.3.4 Adjusting Horizontal Registration of the Back Side Paper (2nd face)

0004-6795

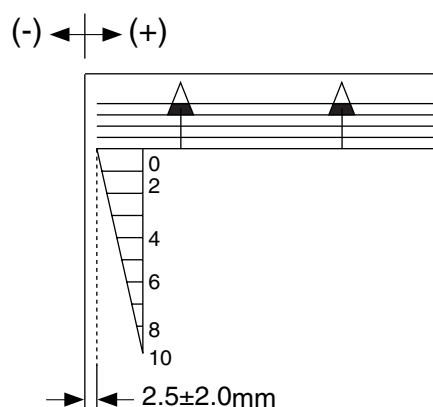
1) Start service mode, and check the adjustment value for the 2nd face horizontal registration of the cassette 1.

-COPIER> ADJUST> FEED-ADJ> ADJ-C1RE

2) Input the adjustment value for the 2nd face horizontal registration of the cassette 1 to the adjustment value for the 2nd face horizontal registration of the deck.

-COPIER> ADJUST> FEED-ADJ> ADJ-DKRE

3) Make a double-sided copy from the deck, and check to make sure that the blank (front side) is  $2.5 \pm 2$  mm.



F-1-40

-If the deck is out of spec, perform the following adjustment.

4) Input new adjustment value to service mode.

-COPIER> ADJUST> FEED-ADJ> ADJ-DKRE

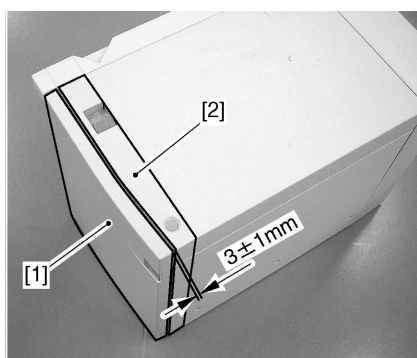
If the adjustment value is increased for 1, an image shifts to the paper feeding direction by 0.1 mm.

5) Press "RESET" twice to end service mode.

### 1.3.5 Adjusting the Mounting Position of the Front Cover

0004-6815

1) For the mounting position of the front cover [1], be sure to make a gap  $3 \pm 1$  mm. between the front cover and front upper cover [2] when attaching.



F-1-41

### 1.3.6 Adjusting the Side Roller Height

0004-6818

Checking Before Adjustment

1) Detach the machine from the host machine, and attach it again to the host machine. At this time, check to see if the

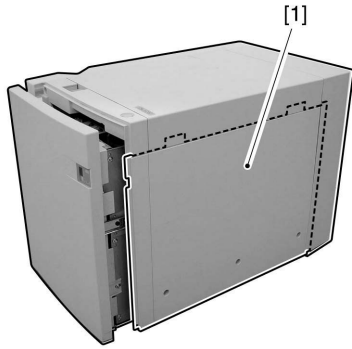
host machine does not shift/become unstable due to the attachment-shock.

If the host machine has shifted/become unstable by the shock, it is necessary to adjust the height of the side rollers.

However, it is unnecessary if the above-mentioned symptom does not occur on the host machine.

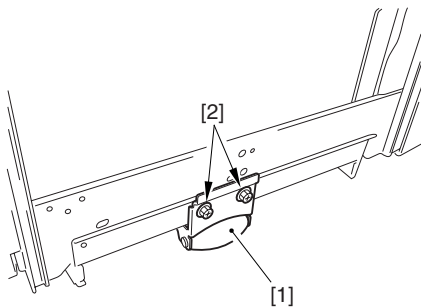
#### Adjusting Procedure

- 1) Connect the machine to the host machine.
- 2) Take out papers from the deck if any.
- 3) Remove the right cover [1] of the machine.



F-1-42

- 4) Loosen the 2 fixing screws [2] for the side roller [1].
- 5) Contact the side roller on the floor, and tighten the fixing screws. At this time, refer to the scale so that the right and left screws indicate the same point.



F-1-43

- 6) Detach the machine from the host machine, and attach it again to the host machine. If the required force to connect the machine does not increase, attach the right cover of the machine, and store papers in the deck to complete the work.

If the required force has increased, follow the steps below.

- 7) Check the scale positions of the side rollers.
- 8) Loosen the fixing screws of the side rollers.
- 9) Refer to the scale, and raise the side rollers by 1mm; tighten the fixing screws.
- 10) Attach the right cover, and store papers in the deck.



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