

# Procedure for the Installation of DADF-K1

Follow the instructions described below to connect DADF-K1 to copier.

1	Checking Components
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Open the package and make sure that the following components indicated in the figure below are included.

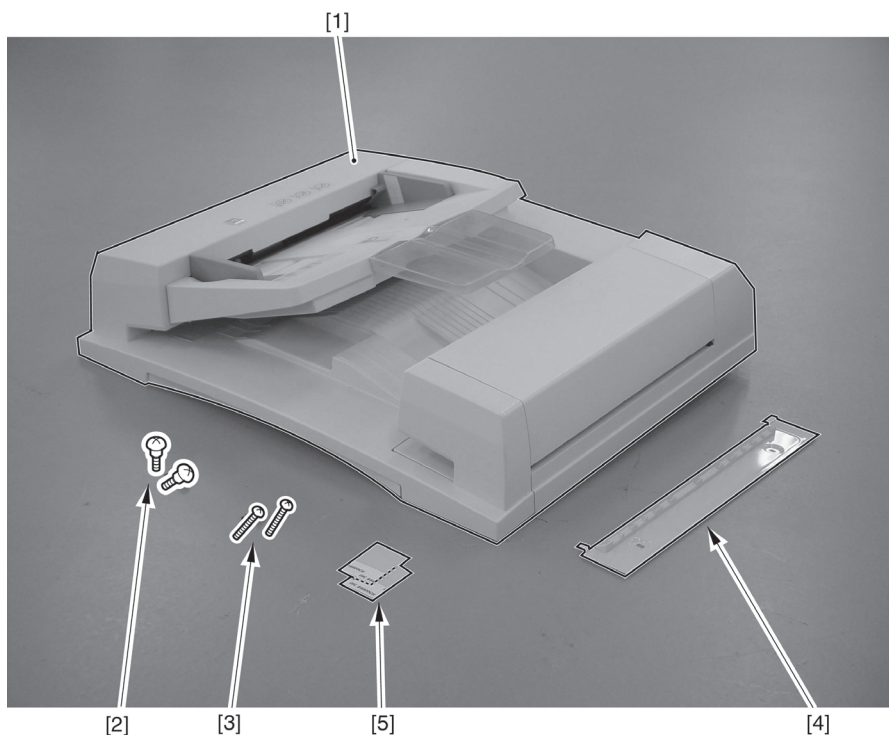


Fig. 1-1

- [1] DADF-K1 ..... 1 pc.
- [2] Stepped screws (black and white) ..... 1 pc. each
- [3] Hinge-fixing screw (M4) ..... 2 pcs.
- [4] Paper jump plate ..... 1 pc.
- [5] Blanking sheet ..... 2 sheets

## 2 Installation Procedure



Be sure to perform the following steps in sequence before starting the installation work on the host side:

1. Turn off the control panel power switch.
2. Turn off the main power switch.
3. Disconnect the power cable (for the outlet).

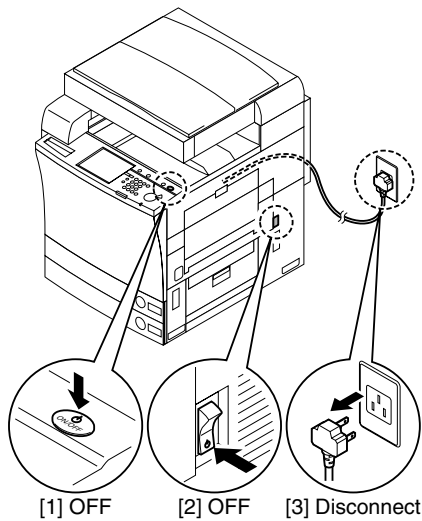


Fig. 2-1

- 1) Remove all adhesive tape attached to the DADF-K1.
- 2) Remove the 4 hole seals [1] from the rear cover surface of the reader unit.

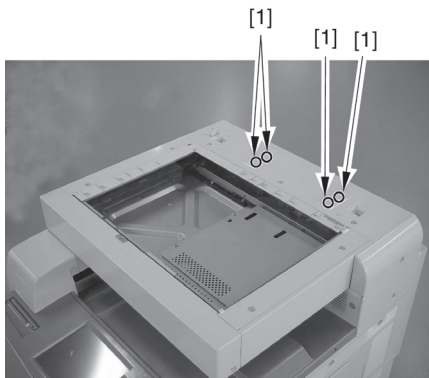


Fig. 2-2

3)



When the stepped screws are fastened, pay attention not to fasten the left and the right screws inversely, or the DADF-K1 cannot be installed to the copier. (The thickness of the stepped screw shank is different.)

More over, be sure to fully tighten the stepped screw.

Fasten the stepped screw (black) [1] supplied with the package to the rear-left, and the stepped screw (white) [2] to the rear-right, viewing from the operation panel. Then, attach the 2 blanking sheets [3] to the positions indicated in the figure below.

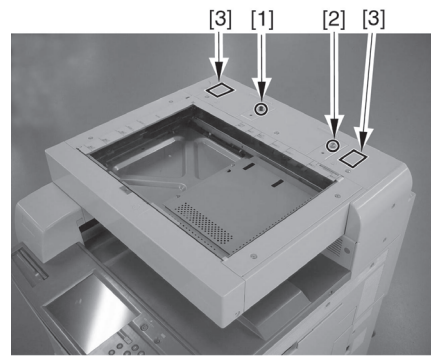


Fig. 2-3

- 4) Loosen the 2 screws [2] to remove the right glass retainer [1]. Attach the paper jump plate [3] supplied with the package, by utilizing the loosened 2 screws.

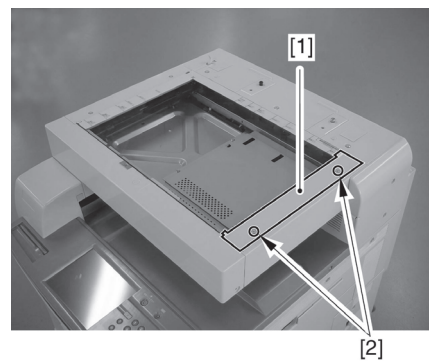


Fig. 2-4

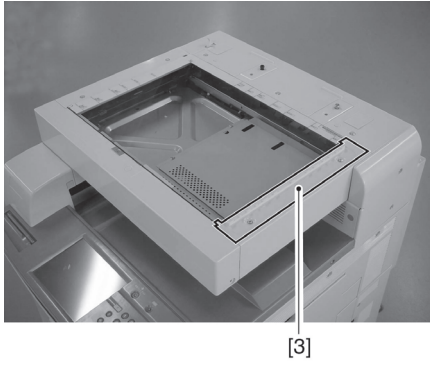


Fig. 2-5

5) Hook the hinges [1] of the DADF-K1 to the fastened stepped screws, and slide the hinges in the direction of the operation panel.

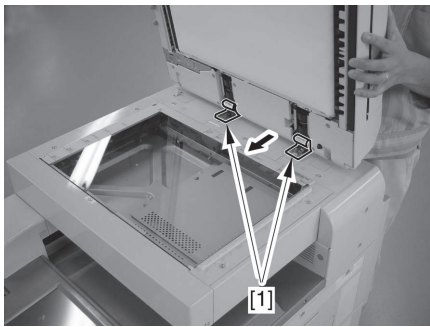


Fig. 2-6

6) While forcing the ADF toward the control panel, fix the hinges by the 2 hinge-fixing screws [1] supplied with the package.

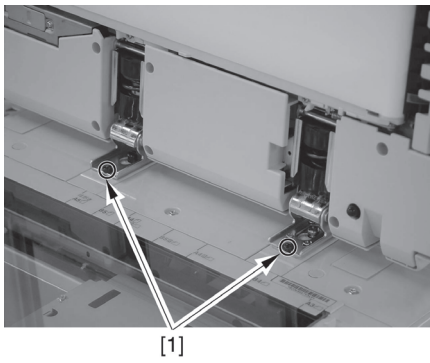


Fig. 2-7

7) Remove the connector cover [1] on the back of the reader unit, and connect the power supply cable [2] of the DADF-K1.

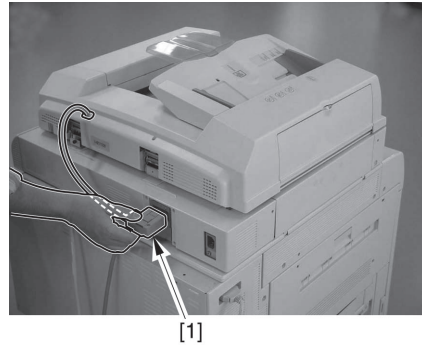


Fig. 2-8

### 3 Making Checks after Installation

After installation, be sure to perform the following:

- 3-1. Checking the ADF Height
- 3-2. Adjusting the skew of the right hinge unit
- 3-3. Correcting the Original Skew
- 3-4. Adjusting the Distance from the Horizontal Size Plate
- 3-5. Adjusting the Original Leading Edge Stop Position (1st side)
- 3-6. Adjusting the Original Leading Edge Stop Position (2nd side)

If you need to make adjustments other than those indicated above, see 4. "Standards and Adjustments" as such will call for specific steps.

#### 3-1. Checking the ADF height

- 1) Open the ADF. Place a single sheet each (normal paper, 64g/m<sup>2</sup> or 80g/m<sup>2</sup>, 3cm x 150cm) at each of 2 positions (A, B) between the belt frame feet on the front side and the copyboard glass, and close the ADF. (See Figure 3-1)

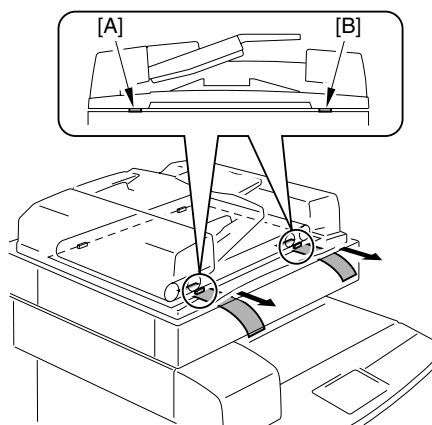


Fig. 3-1

- 2) Pull out the paper to verify that it resists.
- 3) Open the ADF. Similarly to Step 1), place a single sheet each at each of 2 positions (C, D) between the belt frame feet on the rear side and the copyboard glass, and close the ADF. (See Fig. 3-2)

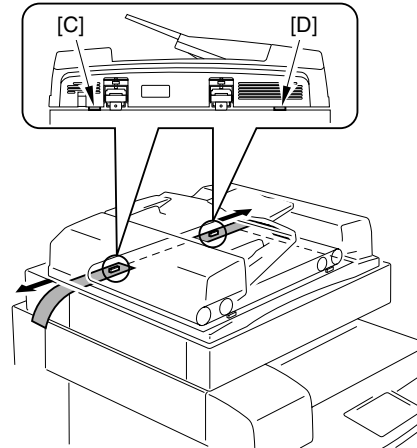


Fig. 3-2

- 4) Pull out the paper to verify that it resists.
- 5) If no resistance is felt against the pulling, see 4, "Standards and Adjustments" and make necessary adjustments.

### 3-2. Adjusting the skew of the right hinge unit

- 1) Open the ADF.
- 2) Check to make sure that the distance between the edge and the screw (2pc.) on the right hinge unit is as indicated.

Standard : 15 to 16.5 mm



If the distance between the edge and the screw is not as indicated, the flap at the inlet to reversal delivery assembly can start to operate improperly, subsequently causing jams. Be sure that the adjustments are made within the indicated range.

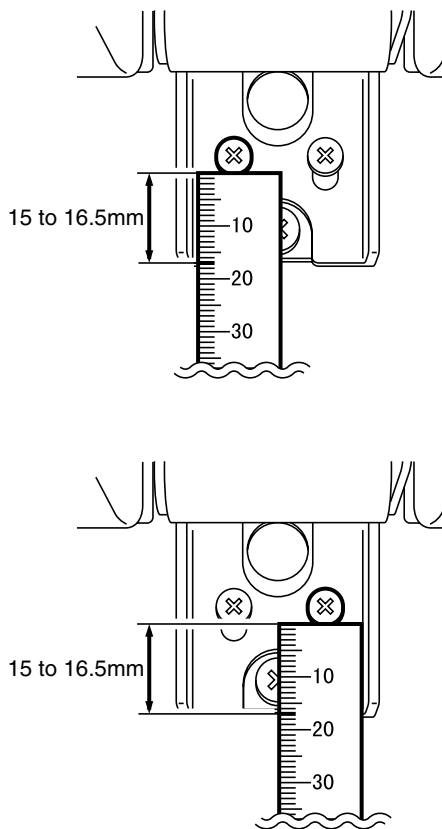


Fig. 3-3

### 3-3. Checking the original skew

Connect the power cable (for the outlet), and turn on the copier's main power switch.



If you are moving an original using the copier's service mode, be sure to use original delivery operation in service mode.

- 1) Select the copier's service mode (FEEDER>ADJUST>DOCST).
- 2) Place a single original page on the original tray of the ADF, and press the OK key. (The original will be moved to the copyboard glass.)
- 3) Open the feeder slowly, and measure the difference between L1 and L2.

Standard :  $L1 - L2 = 0 \pm 1$  mm

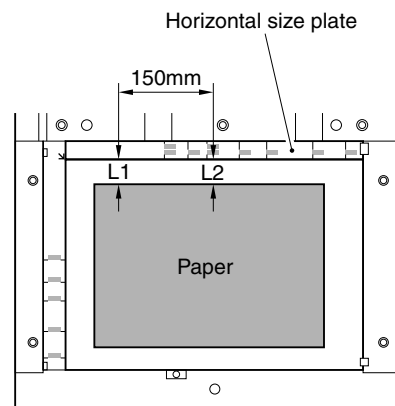


Fig. 3-4

- 4) While keeping the original on the copyboard glass, close the ADF.
- 5) Press the OK key on the control panel. (The original will be discharged.)
- 6) If you need to make adjustments other than those indicated above, see 4. "Standards and Adjustments" as such will call for specific steps.

### 3-4. Checking the distance from the horizontal size plate

- 1) Select the copier's service mode (FEEDER>ADJUST>DOCST).
- 2) Place a signal original page on the original tray of the ADF, and press the OK key. (The original will be moved to the copyboard glass.)

- 3) Open the ADF slowly, and check to make sure that the distance L3 in the figure is as indicated. L3 refers to the distance from the horizontal size plate to the edge of the original.

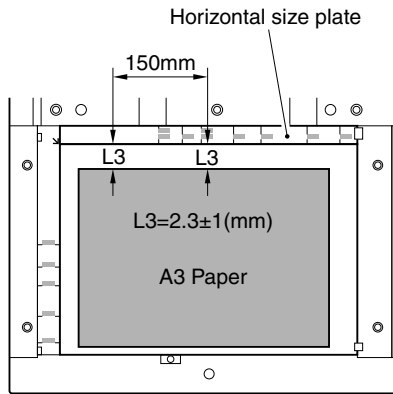


Fig. 3-5

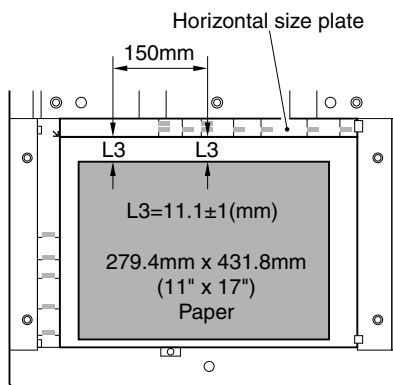


Fig. 3-6

- 4) If the value is out of spec, make an adjustment by complying with "4 Standards and Adjustments."

### 3-5. Checking the original leading edge stop position (1st side)

- 1) Select the copier's service mode (FEEDER>ADJUST>DOCST).
- 2) Place a single original page on the document tray of the ADF, and press the OK key. (The original will be moved to the copyboard glass.)

- 3) Open the ADF slowly, and check to make sure that the distance L4 in the figure is as indicated. Standard: stop position  $L4 = 0 \pm 1$  mm. L4 refers to the distance from the vertical size plate to the edge of the original.

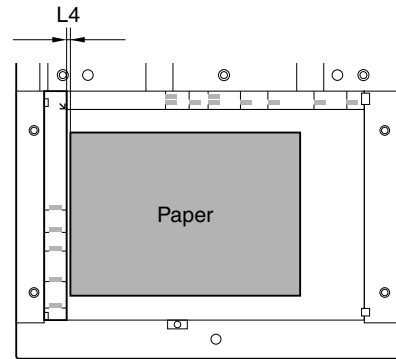


Fig. 3-7

- 4) While keeping the original on the copyboard, close the feeder.
- 5) Press the OK key on the control panel. (The original will be discharged.)

If the value is out of spec, make an adjustment by complying with "4 Standards and Adjustments."

### 3-6. Checking the original leading edge stop position (2nd side)

- 1) Select the copiers service mode (FEEDER>ADJUST>DOCST-R).
- 2) Place a single original page on the document tray of the ADF, and press the OK key. (The original will be moved to the copyboard glass.)
- 3) Open the ADF slowly, and check to make sure that the distance L5 in the figure is as indicated. Standard: stop position  $L5 = 12 \pm 1.5$  mm. L5 refers to the distance from the edge of the copyboard glass to the edge of the original.

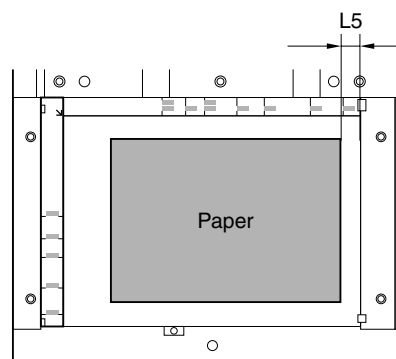


Fig. 3-8

## 4 Standards and Adjustments

Make the following adjustments in the order indicated:

- 4-1. Adjusting ADF Height
- 4-2. Correcting the original screw
- 4-3. Correcting the distance from the horizontal size plate
- 4-4. Adjusting the original leading edge stop position (1st side)
- 4-5. Adjusting the original leading edge stop position (2nd side)

### 4-1. Adjusting ADF height

- If the front right foot of belt frame (at position B) or the rear left foot (at position C) is off the ground, make adjustment as follows.

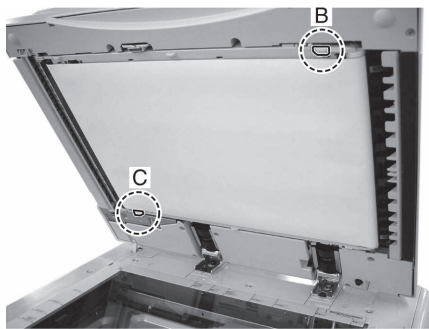


Fig. 4-1



When you loosen the bolt, be sure to use a screw wrench with a diameter of 7 mm.

- 1) Loosen the nut [2] in the upper part of the left hinge [1].

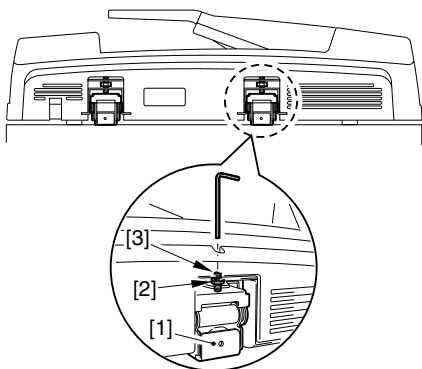


Fig. 4-2

- 2) Using a hexagonal wrench, turn the adjuster screw [3] in the direction specified below by a half turn at a time, and check for gap under the belt frame feet (at 4 positions).

If foot B is off the ground:

Turn clockwise (lifting direction)

If foot C is off the ground:

Turn counterclockwise (lowering direction)

- 3) Verify that all the 4 belt frame feet are securely on the ground, then tighten the nut [2] to fix the position of the adjuster screw [3].

- If the front left foot of belt frame (at position A) or the rear left foot (at position D) is off the ground, make adjustment as follows.

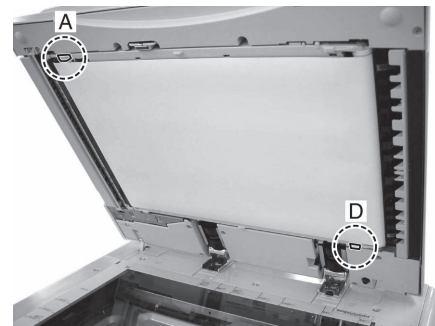


Fig. 4-3

- 1) Using a spanner, loosen the nut [2] on the upper part of the right hinge [1]. (See Fig. 4-2)

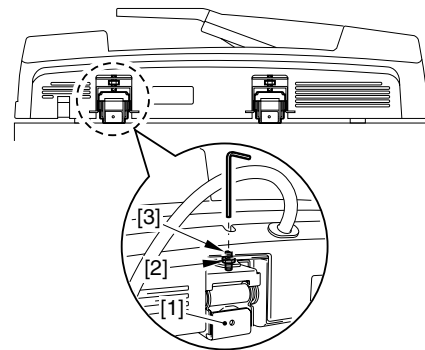


Fig. 4-4

- 2) Using a hexagonal wrench, turn the adjuster screw [3] in the direction specified below by a half turn at a time, and check for gap under the belt frame feet (at 4 positions).

If foot A is off the ground:

Turn clockwise (lifting direction)

If foot D is off the ground:

Turn counterclockwise (lowering direction)

3) Verify that all the 4 belt frame feet are securely on the ground, then tighten the nut [2] to fix the position of the adjuster screw [3].

#### 4-2. Correcting the original skew

- 1) Select the copiers service mode (FEEDER>ADJUST>DOCST).
- 2) Place a single original page on the document tray of the ADF, and press the OK key. (The original will be moved to the copyboard glass.)
- 3) Open the ADF slowly, and measure the distance between L1 and L2 shown in the figure.  
Standard:  $L1 - L2 = 0 \pm 1 \text{ mm}$

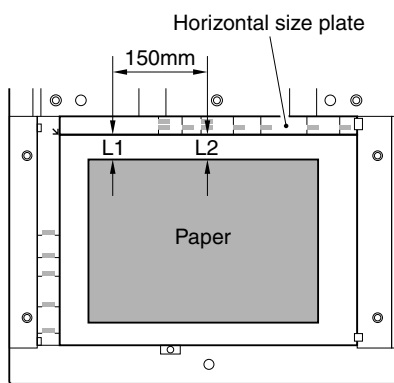


Fig. 4-5

4) With the ADF open, loosen the nut at the rear of the right hinge unit.

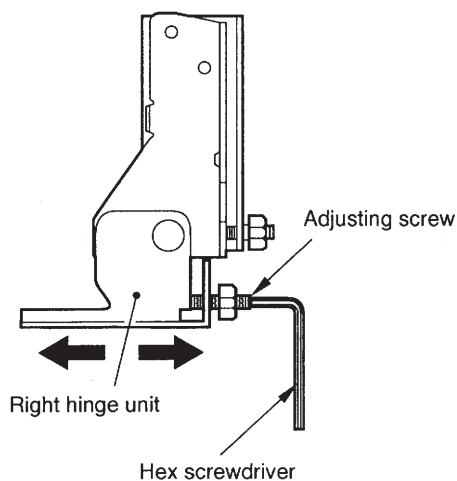


Fig. 4-6

5) Make an adjustment by turning the adjust screw (hexagon head) so that  $L1-L2$  is within  $\pm 1 \text{ mm}$ .

■ If  $L1 < L2$  :

Turn the adjusting screw clockwise. The turns will not be enough to move the ADF; after turning the adjusting screw, move the ADF by hand.

■ If  $L1 > L2$  :

Turn the adjusting screw counterclockwise. The turns should be enough to move the ADF.

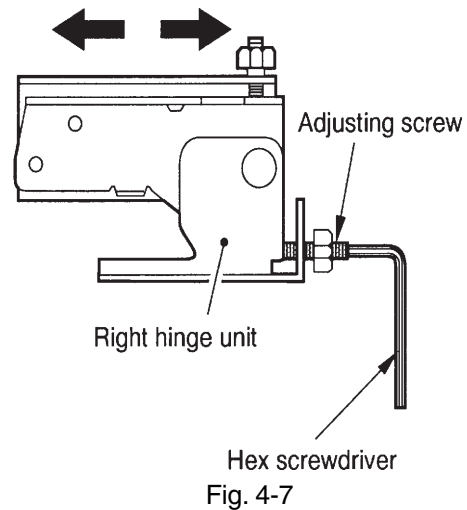


Fig. 4-7

6) After adjustment, secure the adjusting screw by tightening the nut with a hex screwdriver.

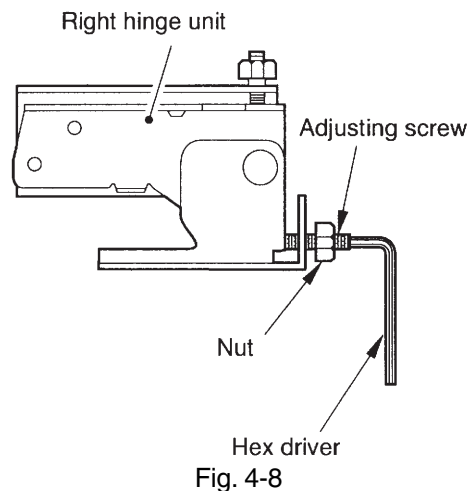


Fig. 4-8



#### 4-3. Adjusting the distance from the horizontal size plate

Be sure to correct the original skew before performing the following steps:

- 1) Select the copier's service mode (FEEDER>ADJUST>DOCST).
- 2) Place a signal original page on the document tray of the ADF, and press the OK key. (The original will be moved to the copyboard glass.)
- 3) Open the ADF slowly, and measure the distance L3 shown in the figure. Do not remove the original from the copyboard glass. L3 refers to the distance from the horizontal size plate to the edge of the original.

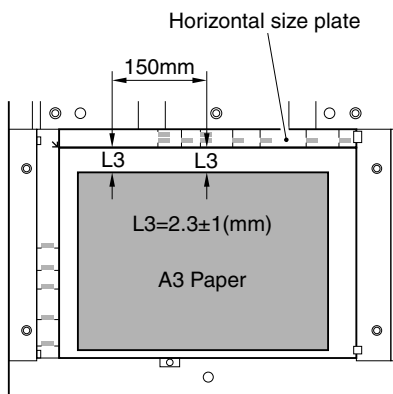


Fig. 4-9

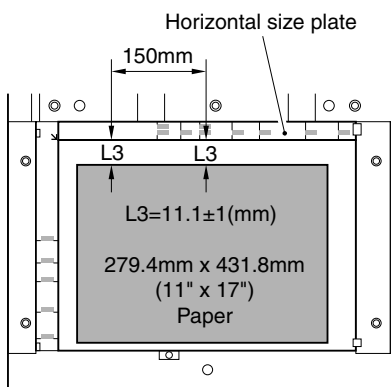


Fig. 4-10

- 4) Close the ADF slowly, and press the OK key. (The original will be discharged.)

- 5) If the distance is not as indicated, loosen the original tray position screw and the fixing screw to adjust the position of the original tray.

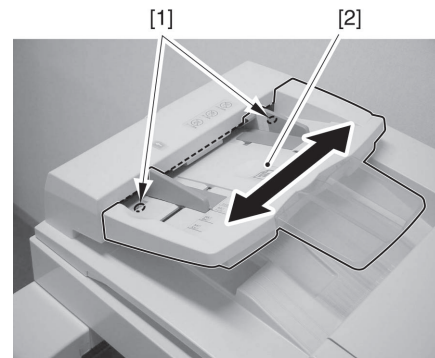


Fig. 4-11

#### 4-4. Adjusting the original leading edge stop position (side 1)

Be sure to correct the original skew and adjust the distance from the horizontal size plate before adjusting the original leading edge stop position.



In order to make the adjusted value effective, it is necessary to deliver an original in the service mode. Make sure to use the service mode always in this adjustment.

- 1) Select the copier's service mode (FEEDER>ADJUST>DOCST).
- 2) Place a single original sheet on the document tray of the ADF, and press the OK key. (The original will be moved to the copyboard glass.)
- 3) Open the ADF slowly, and measure the distance L4 shown in the figure.

Standard: stop position  $L4 = 0 \pm 1$  mm

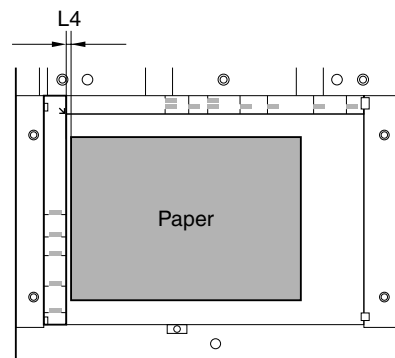


Fig. 4-12

- If the original is found to the left of the Original-positioning mark, increase the value of DOCST (shown in units of 0.34 mm).

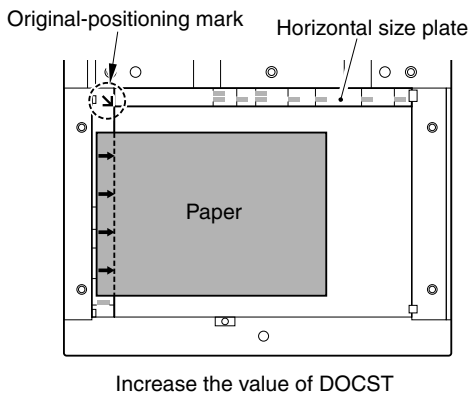


Fig. 4-13

- If the original is found to the right of the Original-positioning mark, decrease the value of DOCST (shown in units of 0.34 mm).

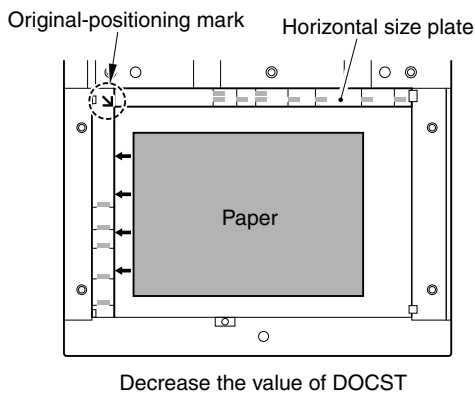


Fig. 4-14

- 4) While keeping the original on the copyboard glass, close the ADF.
- 5) Press the OK key on the control panel once. (The original will be discharged, and the input value will become effective.)

#### 4-5. Adjusting the Original Leading Edge Stop Position (2nd side)

Be sure to correct the original skew and adjust the distance from the horizontal size plate before performing the following:

- 1) Select the copiers service mode (FEEDER>ADJUST>DOCST-RP).
- 2) Place a single original sheet on the document tray of the ADF, and press the OK key. (The original will be moved to the copyboard glass.)
- 3) Open the ADF slowly, and check to make sure that the distance L5 shown in the figure is as indicated. Standard: stop position  $L5 = 12 \pm 1.5$  mm  
L5 refers to the distance from the edge of the copyboard glass to the edge of the original.

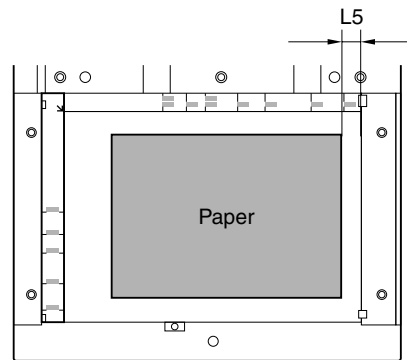


Fig. 4-15

- If the original is found to the left of standard stop position mark, decrease the value of DOCST (shown in units of 0.34 mm).

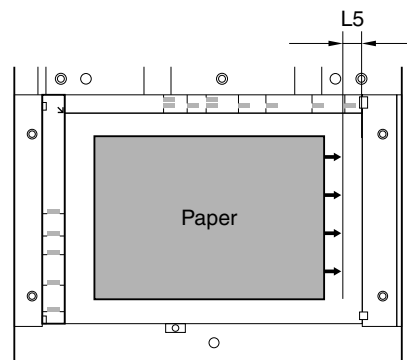
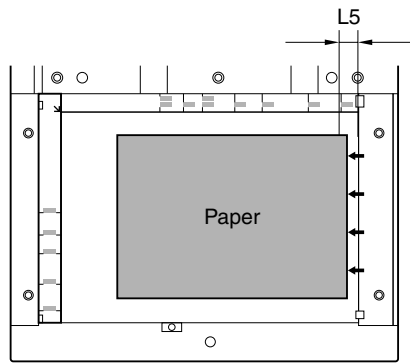


Fig. 4-16

- If the original is found to the right of standard stop position mark, increase the value of DOCST (shown in units of 0.34 mm).



Increase the value of DOCST

Fig. 4-17

- 4) While keeping the original on the copyboard glass, close the ADF.
- 5) Press the OK key on the control panel once. (The original will be discharged, and the input value will become effective.)