

# DF-633

Reverse Automatic Document Feeder

## INSTALLATION MANUAL

Applied Machines: AAJ1/AAJ3/AC4F; ACN2/ACN3  
MFP: 26 ppm/24 ppm/22 ppm/21 ppm/20 ppm  
Product Code: 266i/246i/226i; 225i/215i/205i

### 1. Pre-installation check items

#### ■ General checks

- Refer to "Pre-installation check items" described in the installation manual of the main body.
- Be sure to turn OFF the main power switch of the main body and unplug the power cord before starting the installation.
- Do not turn the power ON before the instruction.

#### ■ Notice about this option

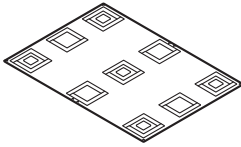


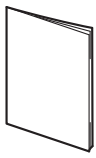
##### ● Tools/jigs required for installation

- Cleaning pad
- Alcohol (isopropyl alcohol)

#### ■ Notice about description contents of the manual

- This manual provides the illustrations of the accessory parts and machine that may be slightly different in shape from yours. In that case, instead of the illustrations, use the appearance of your machine to follow the installation procedure. This does not cause any significant change or problem with the procedure.
- If none of the later steps instruct you to use the parts including screw and cover that you removed following the instructions described in this manual, discard them.

### 2. Accessory parts

No.	Name	Shape	Q'ty
1.	Original mat		1
2.	Chart		1
3.	Shoulder screw		1
4.	Installation manual		1 set

### WARNING



Keep this bag away from babies and children. Do not use in cribs, beds, carriages, or playpens.

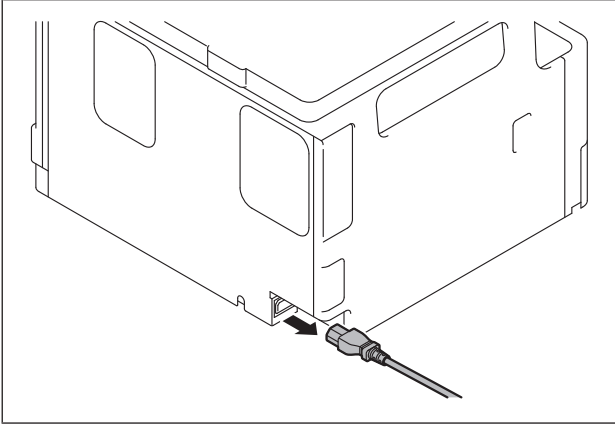


The thin film may cling to nose and mouth and prevent breathing. This bag is not a toy.

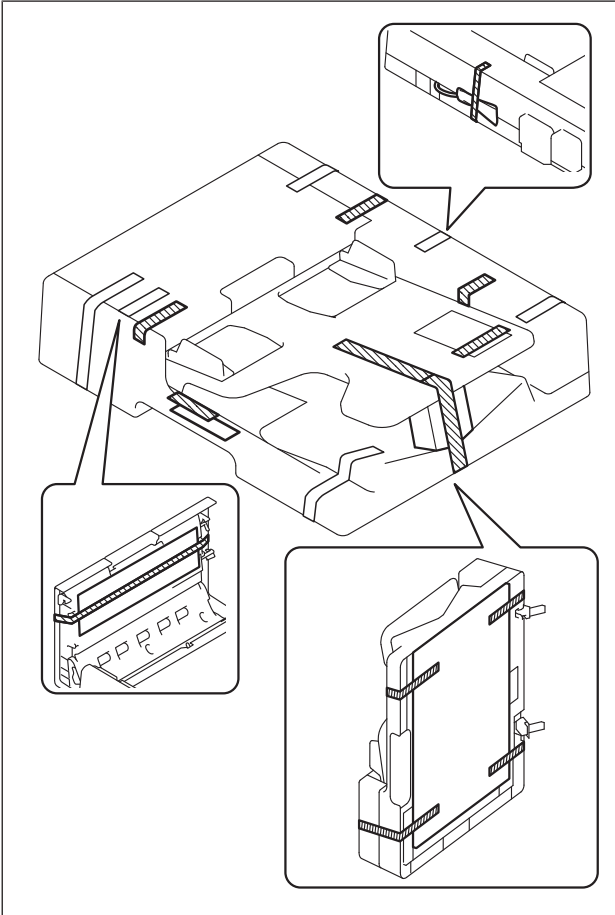


### 3. Installation procedures

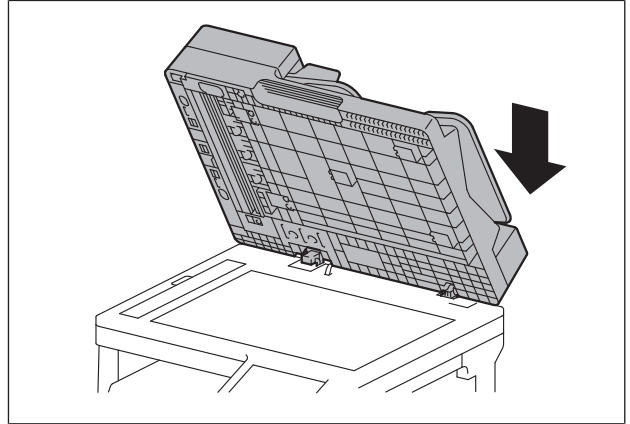
- (1) Turn OFF the main power switch and unplug the power cord from the power outlet.
- (2) Unplug the connector of the power cord to the main body.



- (3) Remove the protective tape and protective materials and remove the protective plastic bags of the cable and relay harness.



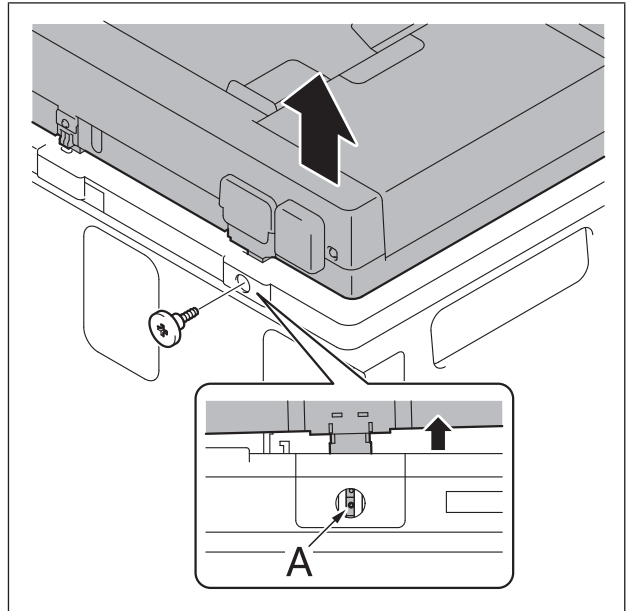
- (4) Place the reverse automatic document feeder (DF) in position.



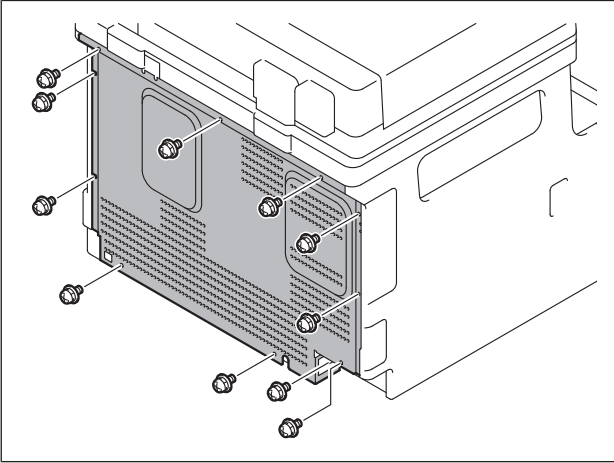
- (5) While raising the DF by applying a force upward at the position shown in the illustration, insert and tighten the supplied shoulder screw.

**Note:**

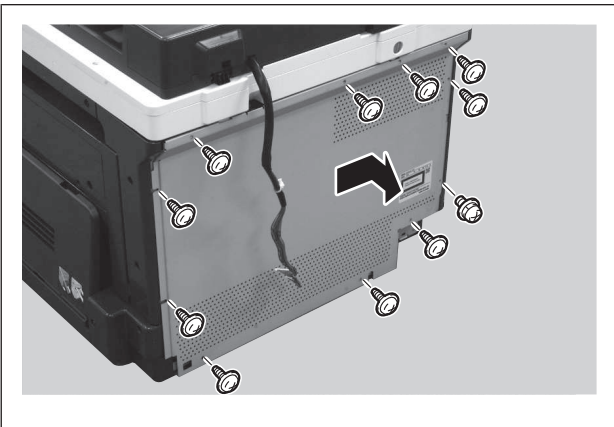
Tighten the screw into the screw hole (A) in the metal plate located at the bottom of the hinge.



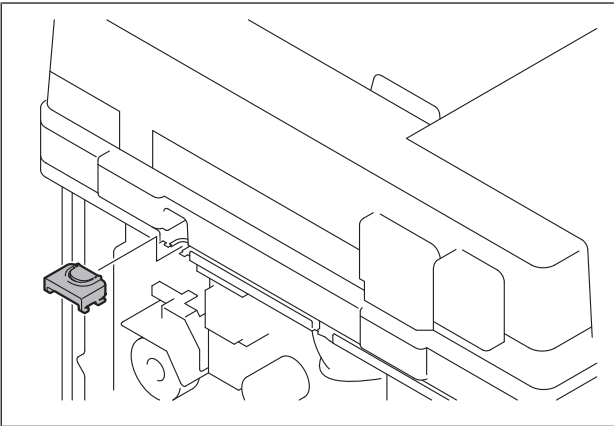
- (6) Remove the rear cover from the main body.  
(11 screws)  
<266i/246i/226i>



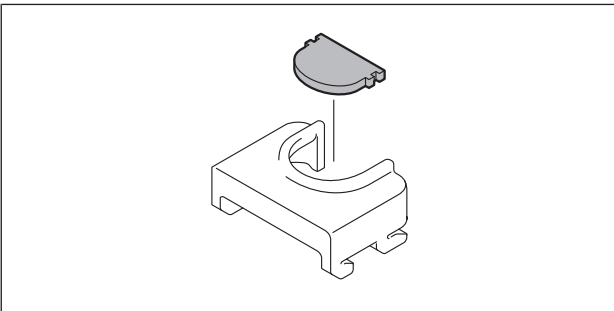
<225i/215i/205i>



- (7) Remove the harness fixing cover.



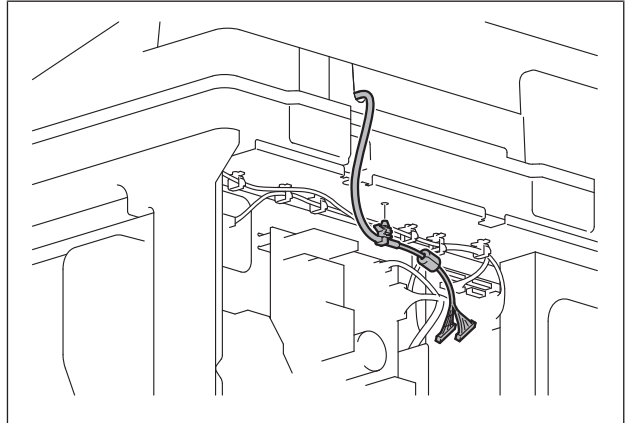
- (8) Cut out the knockout from the harness fixing cover using nippers.



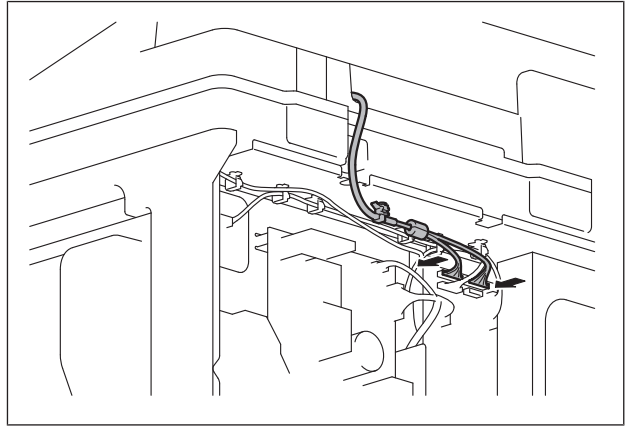
- (9) Connect the wire harness of the DF to the main body.

<For models 266i/246i/226i>

- a) Insert the insertion part of the cable tie of the wire harness of the DF into the hole shown in the illustration.



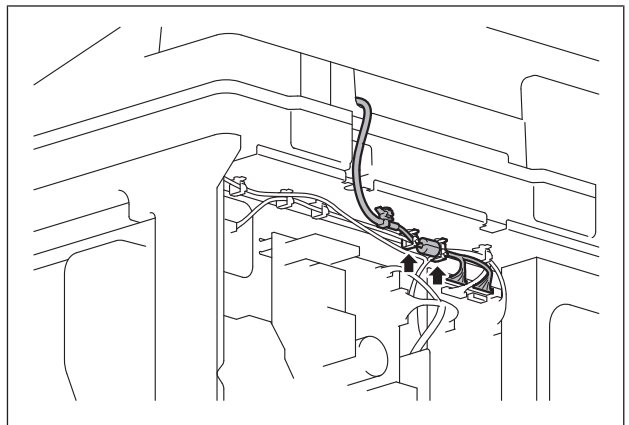
- b) Connect the two connectors to the main body.



- c) Route the wire harness through the two wire saddle.

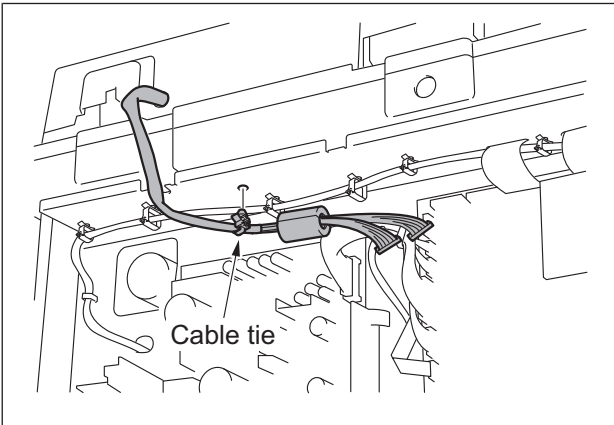
**Note:**

Put the ferrite core between the wire saddles.

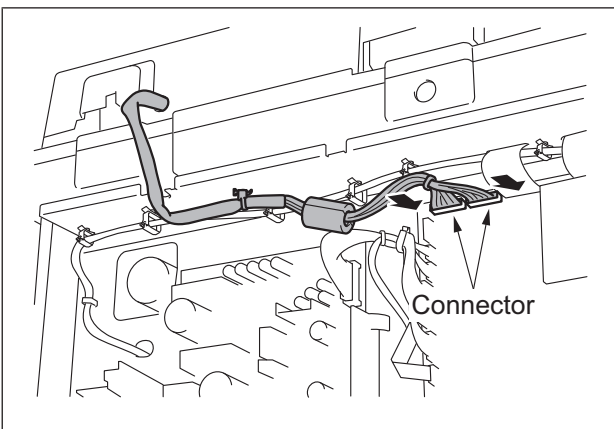


<For models 225i/215i/205i>

- a) Insert the insertion part of the cable tie of the wire harness of the DF into the hole shown in the illustration.



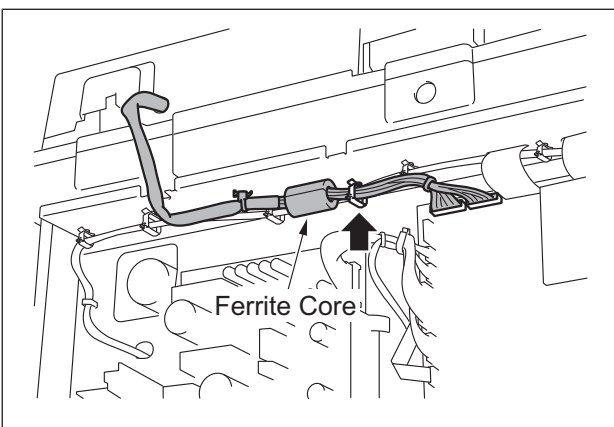
- b) Connect the two connectors to the main body.



- c) Route the wire harness through the wire saddle.

**Note:**

Install the ferrite core at the location shown in the illustration.

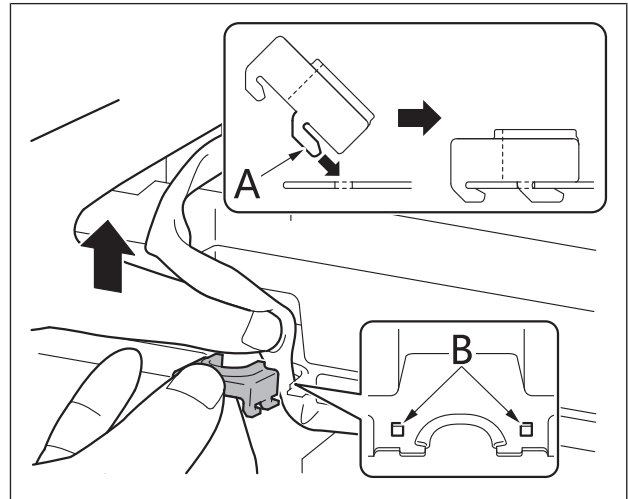


- (10) Attach the harness fixing cover in the manner shown below to hold the DF wire harness in place.

- a) Press the wire harness with your fingers so that it does not move.
- b) Fit the tabs (A) of the harness fixing cover into the holes of the plate (B) as shown in the illustration and attach the harness fixing cover to the metal plate.

**Note:**

If the wire harness sags down inside the main body, the part of the wire harness located outside the main body is pulled during operation and the wire harness may be cut.



(11) Reinstall the rear cover to the main body. (11 screws)

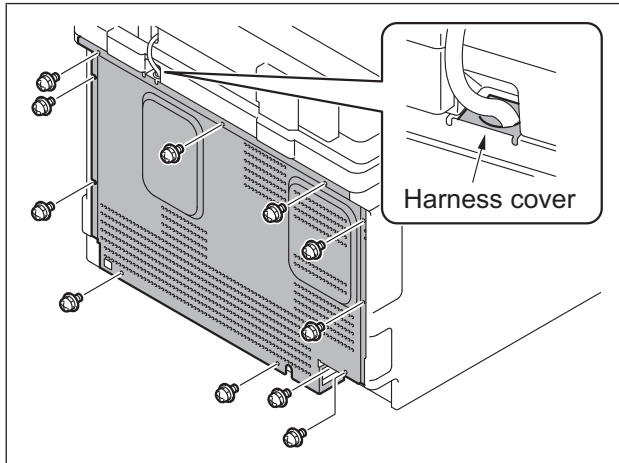
**Note:**

- Make sure that the harness fixing cover is not detached, and then attach the rear cover.

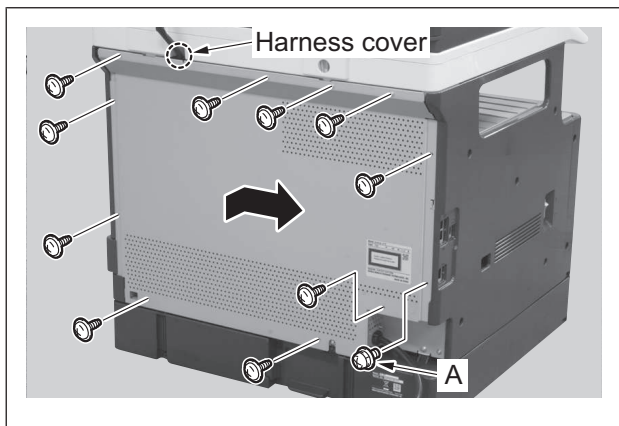
<Only for models 225i/215i/205i>

- Be aware that only the screw A is different from other screws.

<266i/246i/226i>



<225i/215i/205i>

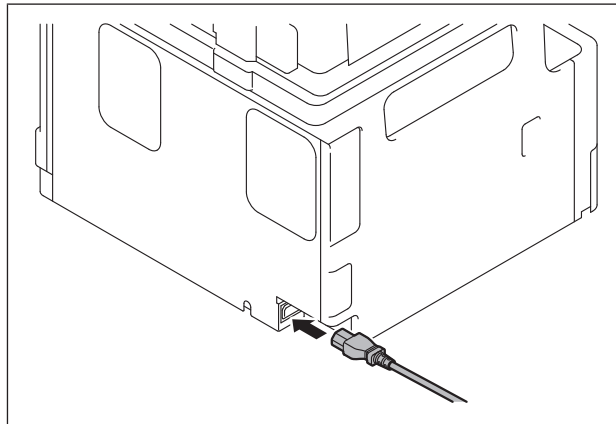


(12) Plug the connector of the power cord to the main body.

**! WARNING**



Use the appropriate power cord.  
Failure to do this could result in a fire or electrical shock.



#### 4. Configuration procedures (Only for models 266i/246i/226i)

■ **ADF settings**

- (1) Close the DF.
- (2) Plug the power cord into the power outlet and turn ON the main power switch.
- (3) Display the Service Mode screen.  
(For details of how to display the Service Mode screen, see the service manual.)
- (4) Touch "System 2."
- (5) Touch "□."
- (6) Touch "ADF Settings."
- (7) Touch "Single-Sided Scan TX."
- (8) Touch "END."
- (9) Touch "Exit" on the Service Mode screen.
- (10) Turn OFF and ON the main power switch.

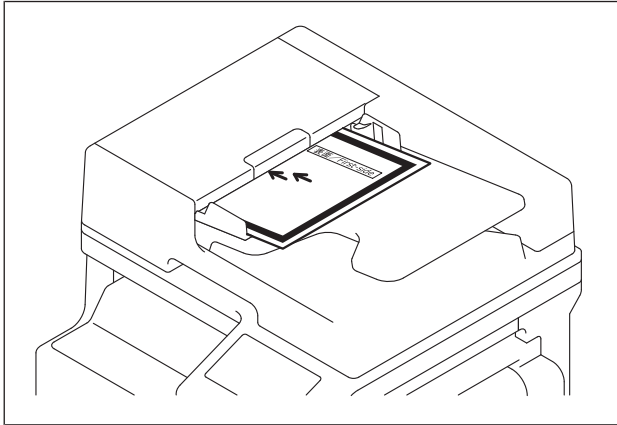
**Note:**

When displayed the Service Mode screen, be sure to turn off the power after exiting the Service Mode screen and wait for 10 seconds or more before turning on.

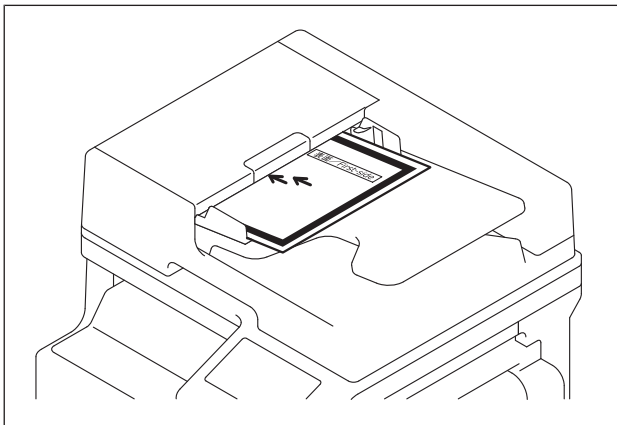
## 5. Adjustment procedures

### ■ Zoom ratio adjustment (Only for models 266i/246i/226i)

- (1) Display the Service Mode screen.  
(For details of how to display the Service Mode screen, see the service manual.)
- (2) Touch "ADF."
- (3) Touch "FD-Mag. Adj.(F)."
- (4) Touch "Auto Adjust."
- (5) Place the chart in the document feeding tray.  
(Set the chart with the front side facing up, and the arrow pointing to the left when viewing from the front.)



- (6) Press the Start key.
- (7) Check that "Adjustment Result" is "OK" and then touch "SET."
- (8) Touch "END."
- (9) Touch "FD-Mag. Adj.(B)."
- (10) Touch "Auto Adjust."
- (11) Place the chart in the document feeding tray.  
(Set the chart with the front side facing up, and the arrow pointing to the left when viewing from the front.)

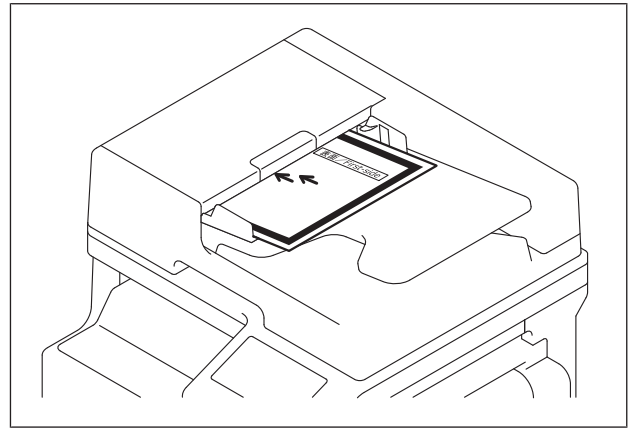


- (12) Press the Start key.
- (13) Check that "Adjustment Result" is "OK" and then touch "SET."
- (14) Touch "END."

### ■ Adjusting DF skew

#### ● Measuring DF skew (For models 266i/246i/226i)

- (1) Touch "ADF automatic adjustment."
- (2) Touch "Skew Measurement."
- (3) Place the chart in the document feeding tray.  
(Set the chart with the front side facing up, and the arrow pointing to the left when viewing from the front.)



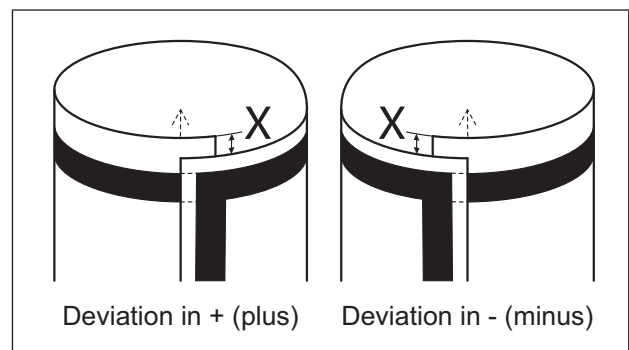
- (4) Press the Start key.  
The measurement result will be displayed.
- (5) Repeat operations from steps (3) to (4) four more times. (Five times in total)
- (6) Check the "Front" "Avg. Value."  
Specifications:  $\pm 0.5\%$  or less

#### Note:

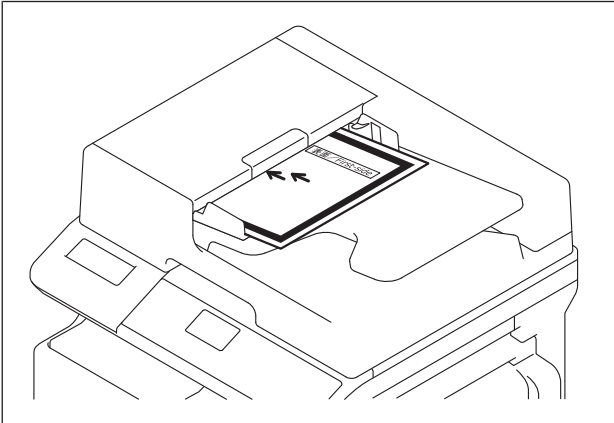
If the value falls within the specified range, proceed to "Attaching the original mat" E-8".  
If the value does not fall within the specified range, perform "Adjusting DF skew" E-7".

#### ● Measuring DF skew (For models 225i/215i/205i)

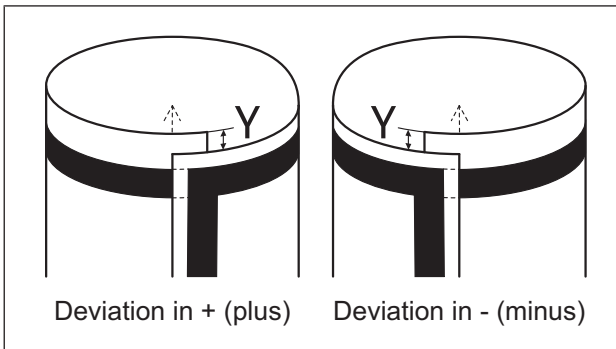
- (1) Plug the power cord into the power outlet and turn ON the main power switch.
- (2) Check how the edges of the chart are misaligned.  
The amount of the deviation of the chart will be X.



- (3) Load the test chart in the document feeding tray and make 1-sided copy five consecutive times. (Set the chart with the front side facing up, and the arrow pointing to the left when viewing from the front.)



- (4) Fold all 5 sample copies as illustrated and check for any deviation. Deviation on the sample will be Y.



- (5) Obtain the difference between the deviation of the chart and the deviation of the sample.  
 Difference of the deviation =  $Y - X$   
 Specifications:  $0 \pm 2.0$  mm

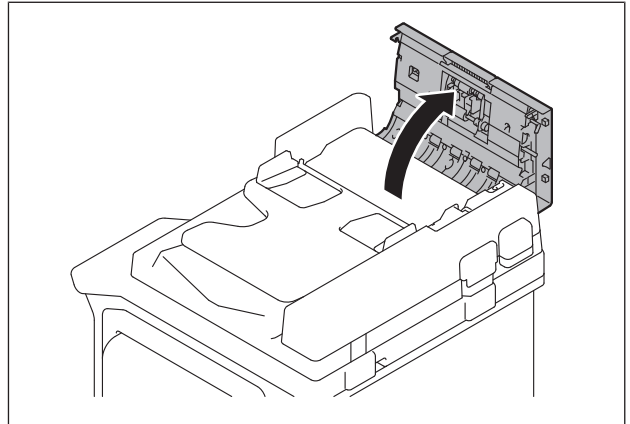
**Note:**

If the difference in deviations falls within the specified range, proceed to "Attaching the original mat▶ E-8".

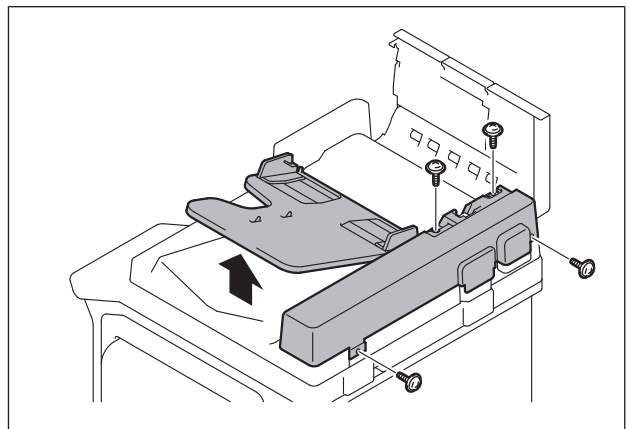
If the difference in deviations does not fall within the specified range, perform "Adjusting DF skew▶ E-7".

● **Adjusting DF skew**

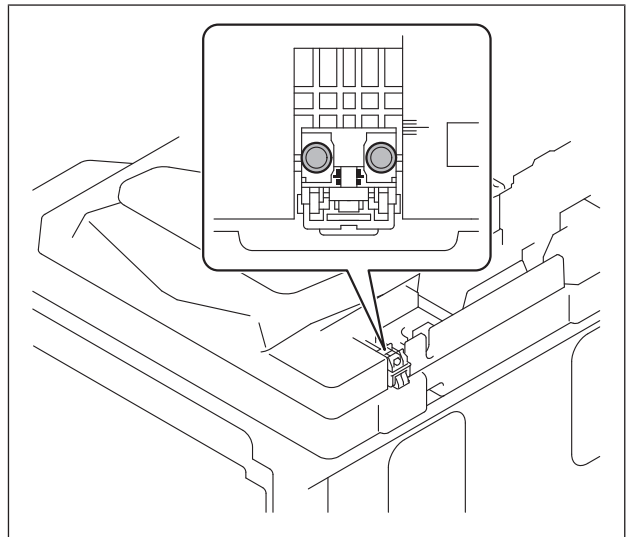
- (1) Open the DF top door.



- (2) While lifting the document feeding tray, remove the DF rear cover. (Four screws)



- (3) Loosen the two screws shown in the illustration.



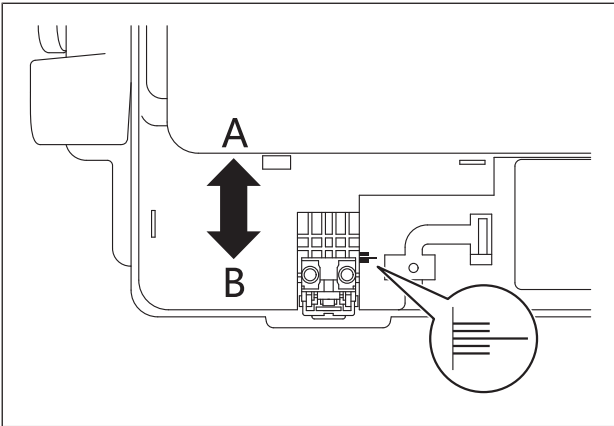
- (4) The DF is shifted in the direction of the arrow, and the position of the scale is adjusted.

<For models 266i/246i/226i>

- If the value of "Scale" on the screen is a positive number: A direction
- If the value of "Scale" on the screen is a negative number: B direction

<For models 225i/215i/205i>

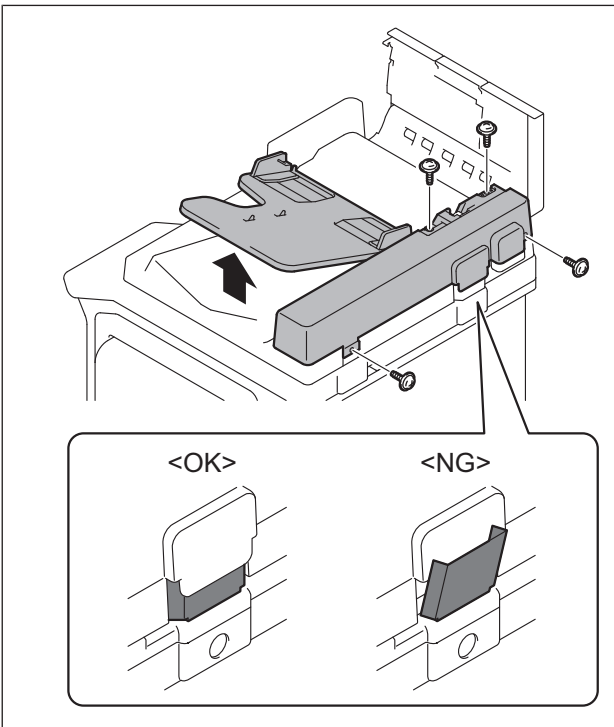
- If the difference in deviations is a positive number: A direction
- If the difference in deviations is a negative number: B direction



- (5) After the adjustment procedure has been completed, tighten the two screws which has been loosened in step (3).
- (6) Reinstall the DF rear cover while lifting the document feeding tray. (Four screws)

**Note:**

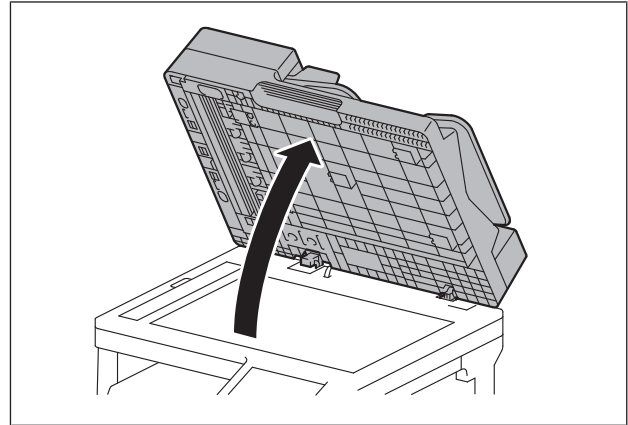
When reattaching the cover, put the film inside the cover.



- (7) Close the DF top door.

■ **Attaching the original mat**

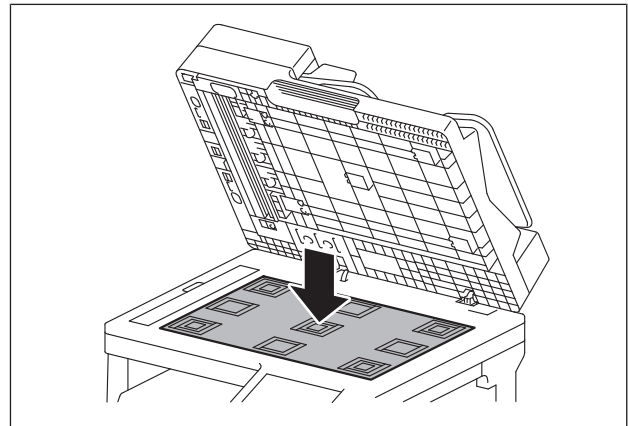
- (1) Raise the DF.



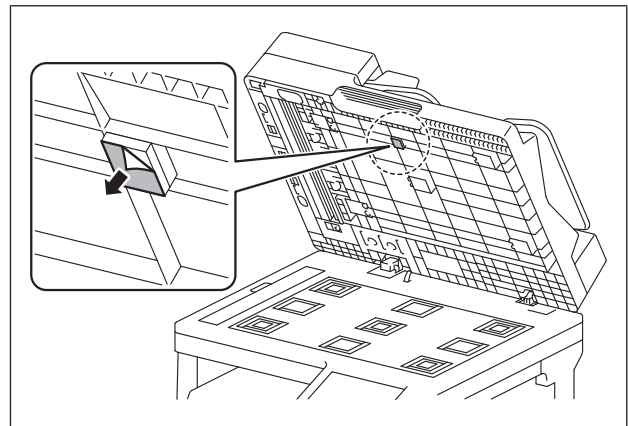
- (2) Place the original mat on the document glass.

**Note:**

There is no distinction in the front and rear direction of the original mat.

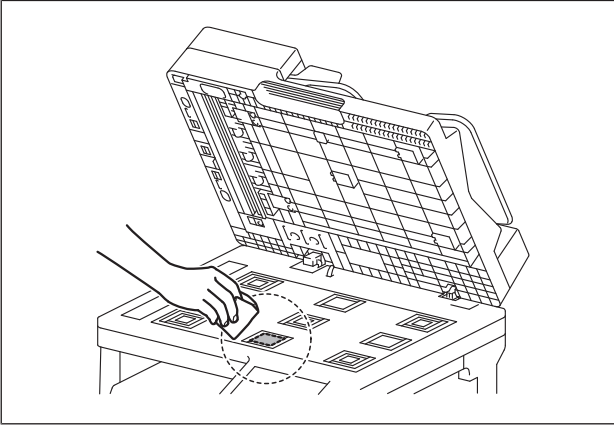


- (3) Peel the seal off as shown in the illustration.

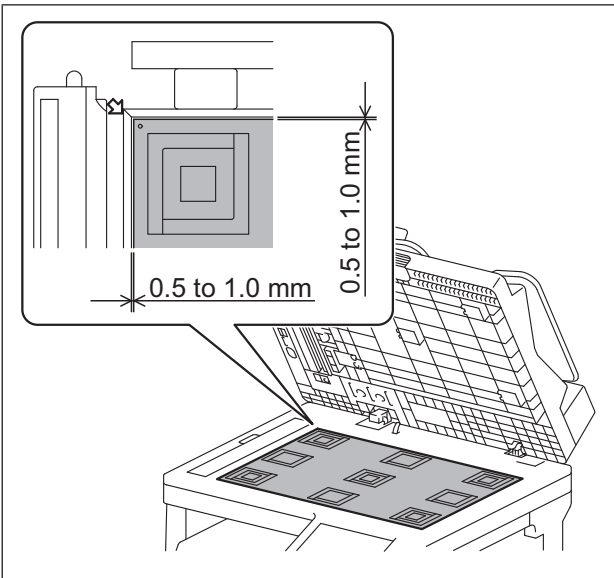




- (4) Clean the indicated location on the original mat with the cleaning pad soaked with alcohol.



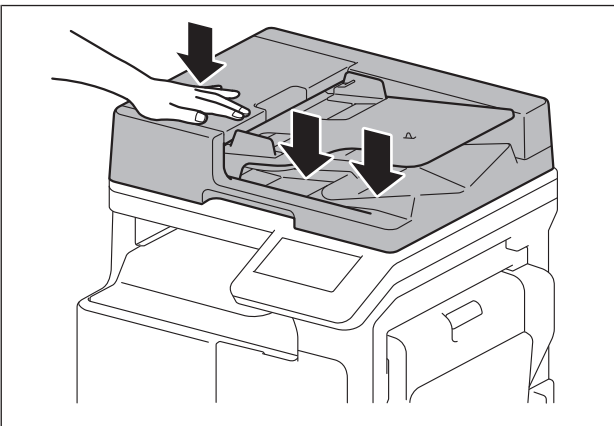
- (5) Align the original mat with its rear edge being 0.5 to 1.0 mm away from both FD and CD scales.



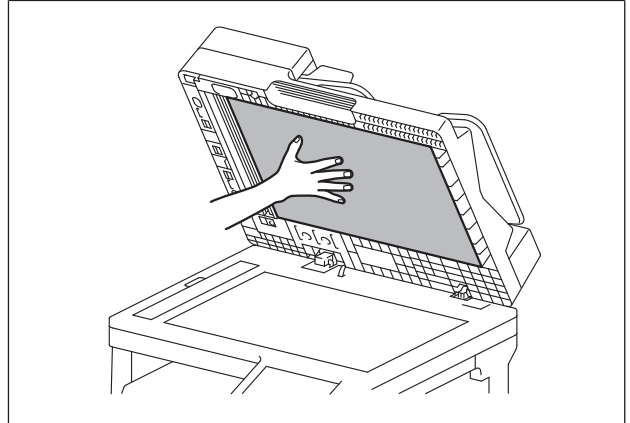
- (6) Close the DF, then press down gently.

**Note:**

Be careful not to misalign the original mat when closing the DF.



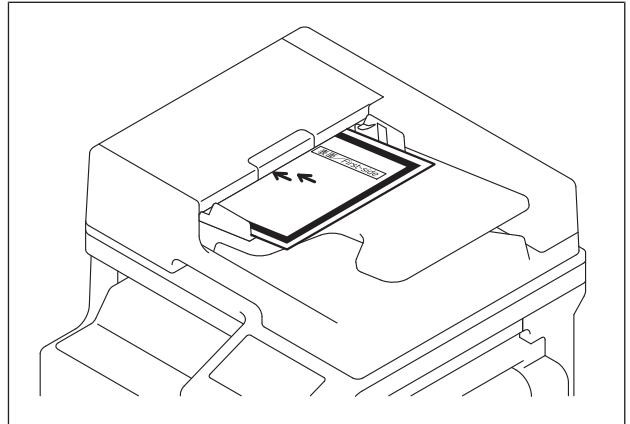
- (7) Gently raise the DF and press the original mat up against the DF by hand so that it is affixed in position.



- (8) Close the DF.

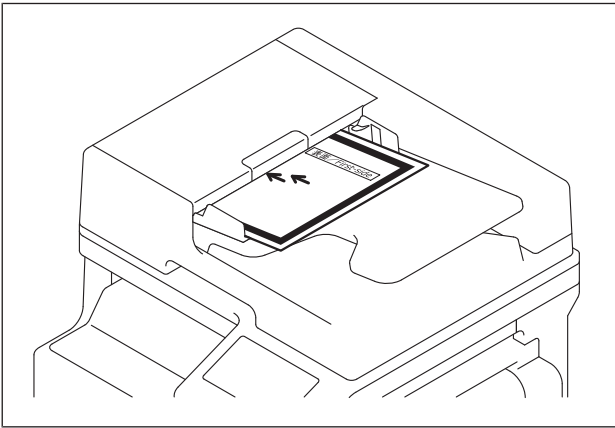
■ **Auto stop position adjustment**  
(Only for models 266i/246i/226i)

- (1) Touch "Sub Scanning."
- (2) Place the chart in the document feeding tray.  
(Set the chart with the front side facing up, and the arrow pointing to the left when viewing from the front.)

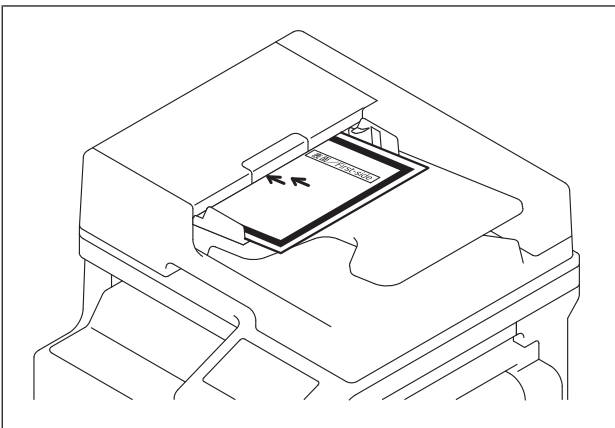


- (3) Press the Start key.
- (4) Touch "Apply."
- (5) Touch "Main Scanning."

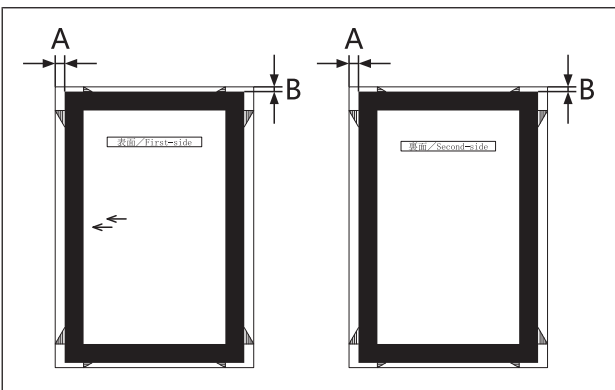
- (6) Place the chart in the document feeding tray.  
(Set the chart with the front side facing up, and the arrow pointing to the left when viewing from the front.)



- (7) Press the Start key.  
(8) Touch "Apply."  
(9) Touch "END."  
(10) When all the adjustments are completed, set the chart to the document feeding tray (with the surface facing up, and the arrow pointing to the left when viewing from the front), and take the duplex sample copy at the same magnification.



- (11) Check whether the sample copy margins meet the following specifications.
- Width A:  $10 \pm 2.0$  mm for the first and the second side
  - Width B:  $5 \pm 1.0$  mm



**Note:**

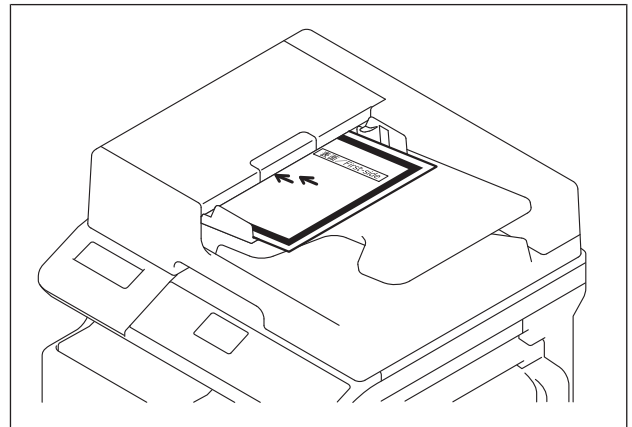
If the values are out of the specified range, refer to the service manual and make adjustments.

■ **Zoom ratio adjustment and registration adjustment**

(Only for models 225i/215i/205i)

● **Checking the reference zoom ratio**

- (1) Load the chart in the document feeding tray and make a full-size copy. (Set the chart with the front side facing up, and the arrow pointing to the left when viewing from the front.)



- (2) Check that the lengths of the reference lines reproduced on the copy, A (CD) and B (FD), meet the following specifications.

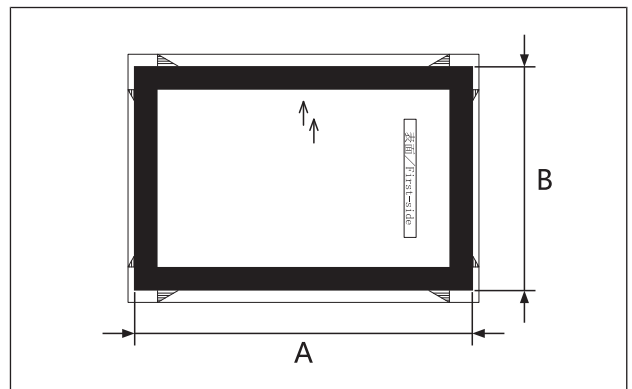
Reference line registration specifications

A (CD):  $287 \pm 1.4$  mm ( $\pm 0.5\%$ )

B (FD):  $190 \pm 1.0$  mm ( $\pm 0.5\%$ )

**Note:**

- When the length of the line reproduced on the copy is out of the specified range, perform "Registration check (full size copy, 2-sided original/2-sided copy)" E-11".
- When the length of the line reproduced on the copy is within the specified range, go to "Registration check (full size copy, 2-sided original/2-sided copy)" E-11".



### ● Zoom ratio adjustment

- (1) Display the Service Mode screen.  
(For details of how to display the Service Mode screen, see the service manual.)
- (2) Press the [▼] or [▲] key to select "ADJUST" on the display.
- (3) Press the [OK] key.
- (4) Press the [▼] or [▲] key to select "ADF MAIN ZOOM" or "ADF SUB ZOOM" on the display.
  - ADF MAIN ZOOM: A (CD)
  - ADF SUB ZOOM: B (FD)
- (5) Press the [OK] key.
- (6) Press the [▼] or [▲] key to select "ADJUST" on the display.
- (7) Press the [OK] key.
- (8) Change the setting value using the [▼] or [▲] key.

Adjustment Range: 101.0% to 99.0%

(Setting Value 100 = 100%, 0.1% per step)

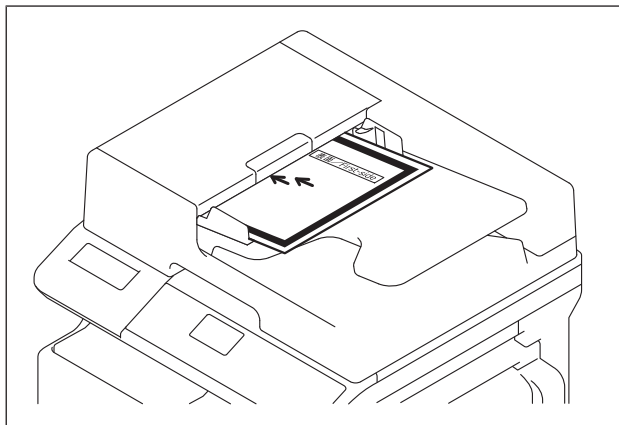
If the length of A or B is above the specified range: Reduce the setting.

If the length of A or B is below the specified range: Increase the setting.

- (9) Press the [OK] key.
- (10) Make a copy and check again.

### ● Registration check (full size copy, 2-sided original/2-sided copy)

- (1) Place the chart in the document feeding tray.  
(Set the chart with the front side facing up, and the arrow pointing to the left when viewing from the front.)
- (2) Make a full size copy in 1-SIDE → 1-SIDE copy mode.

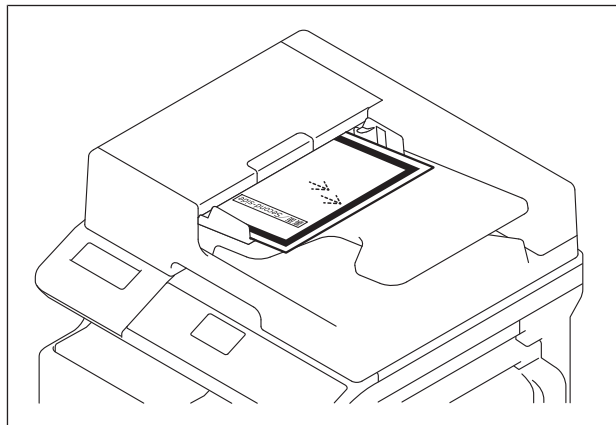


- (3) Place the chart in the document feeding tray.  
(Set the chart in the direction shown in the illustration with the rear side facing up.)

- (4) Make a full size copy in 2-SIDE → 2-SIDE copy mode.

#### Note:

When AD-509 is not installed, make a full size copy in 2-SIDE → 1-SIDE copy mode.



- (5) Check whether the copy margins meet the following specifications.

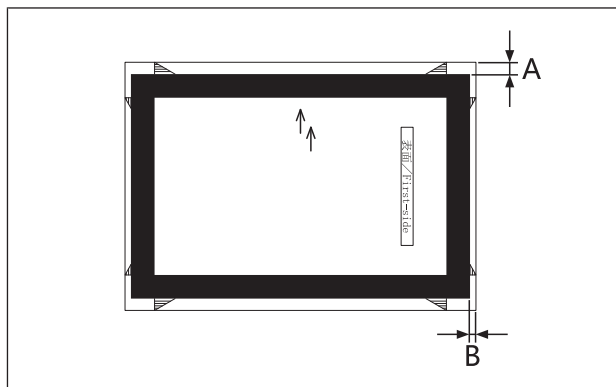
Margin registration specifications:

<In full size copy mode>

Width A:  $10 \pm 2.0$  mm, width B:  $5 \pm 2.0$  mm

<In 2-sided original mode>

Width A:  $10 \pm 2.0$  mm



- (6) If the copy margins are out of the specified range, perform "Registration CD adjustment (Width B) ▶ E-12" and "Registration FD adjustment (Width A) ▶ E-12".

● Registration CD adjustment (Width B)

- (1) Display the Service Mode screen.  
(For details of how to display the Service Mode screen, see the service manual.)
- (2) Press the [▼] or [▲] key to select “ADJUST” on the display.
- (3) Press the [OK] key.
- (4) Press the [▼] or [▲] key to select “ADF MAIN RESIST1” on the display.

**Note:**

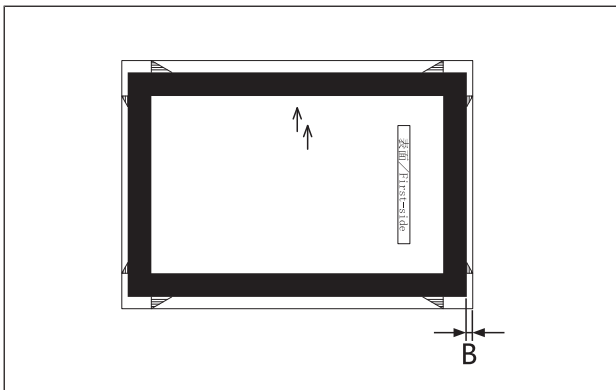
In 2-sided original mode, select “ADF MAIN RESIST2” on the display.

- (5) Press the [OK] key.
- (6) Press the [▼] or [▲] key to select “ADJUST” on the display.
- (7) Press the [OK] key.
- (8) Change the setting value using the [▼] or [▲] key.

Adjustment Range: -5 mm to +5 mm

(Setting value 100 = 0 mm, 0.1 mm per step)

If the width B on the copy is longer than that on the chart, enter a positive value using - key.



- (9) Press the [OK] key.
- (10) Make a copy and check again.

● Registration FD adjustment (Width A)

- (1) Display the Service Mode screen.  
(For details of how to display the Service Mode screen, see the service manual.)
- (2) Press the [▼] or [▲] key to select “ADJUST” on the display.
- (3) Press the [OK] key.
- (4) Press the [▼] or [▲] key to select “ADF SUB RESIST1” on the display.

**Note:**

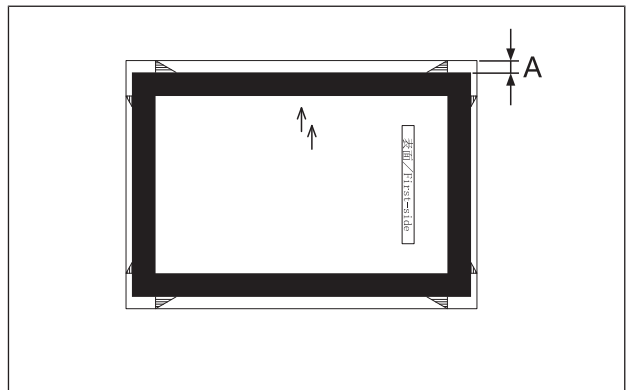
In 2-sided original mode, select “ADF SUB RESIST2” on the display.

- (5) Press the [OK] key.
- (6) Press the [▼] or [▲] key to select “ADJUST” on the display.
- (7) Press the [OK] key.
- (8) Change the setting value using the [▼] or [▲] key.

Adjustment Range: -5 mm to +5 mm

(Setting value 100 = 0 mm, 0.1 mm per step)

If the width A on the copy is longer than that on the chart, enter a positive value using + key.



- (9) Press the [OK] key.
- (10) Make a copy and check again.