
INSTALLATION MANUAL

DF-605

Reverse Automatic Document Feeder

Applied Machine: **bizhub** 180/**bizhub** 210
for Product Code 4034

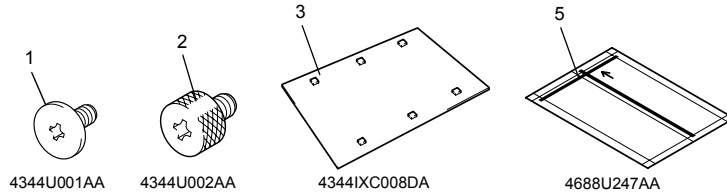
NOTE

- Before setting up, be sure to unplug the power cord of the machine.
 - Keep all packing materials out of the reach of children.
 - Before installing the Reverse Automatic Document Feeder, be sure to install MK-501 separately available as option.
-

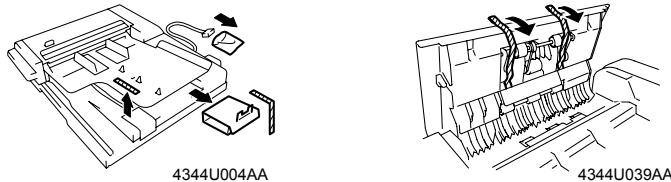
■ Unpacking

1. Check that the following accessories are available in the Box .

- | | |
|--|---|
| 1. Shoulder Screw | 2 |
| 2. Decorative Screw | 2 |
| 3. Document Pad | 1 |
| 4. Installation Manual (this manual) | 1 |
| 5. Test chart (A3) | 1 |



2. Remove the protective tape and shipping preservatives and remove the protective vinyl bag of the hookup cord.

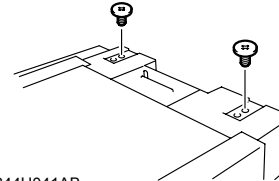


NOTE

Before installing the Reverse Automatic Document Feeder, be sure to install MK-501 separately available as option.

■ Installing the Reverse Automatic Document Feeder

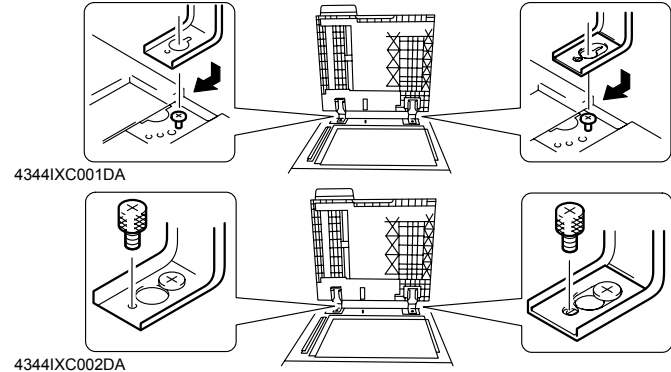
1. Install the two Shoulder Screws furnished with the Reverse Automatic Document Feeder to the hinge mounting portion.



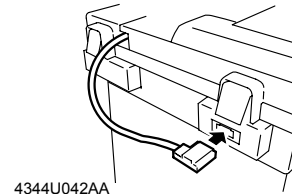
NOTE

Use the outer threaded holes to install the Shoulder Screws.

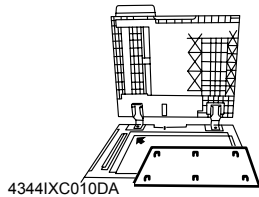
2. Place the Reverse Automatic Document Feeder on the machine, and fix it with two Decorative Screws provided.



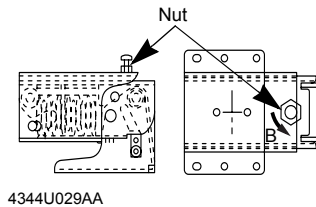
3. Connect the hookup harness connector of the Reverse Automatic Document Feeder to the mating connector on the machine side.



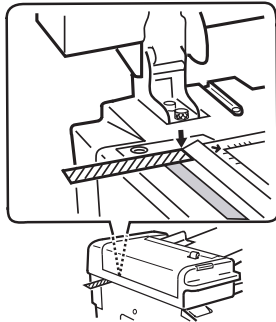
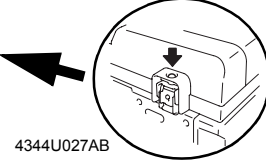
■ Adjusting the Height of Reverse Automatic Document Feeder



1. Place the Document Pad, with its side to which sponges are affixed facing up, onto the Original Glass.



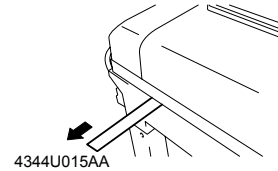
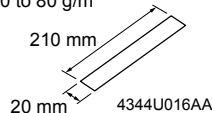
2. Loosen the nut on the upper side of the left hinge as viewed from the control panel side (by turning it in the direction of B).



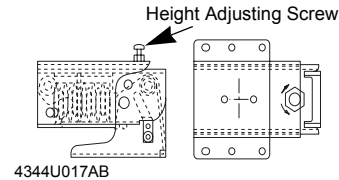
3. Prepare a strip of paper using copy paper, place it at the location shown in the illustration, and gently lower the Reverse Automatic Document Feeder.

- * Place the strip of paper so that its corner is aligned with the portion indicated by the arrow in the illustration on the left (edge in the rear of the Document Scanning Glass).

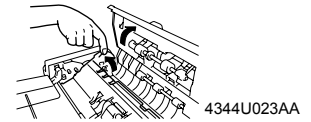
- * Prepare the strip of paper as follows:
Size: 20 mm × 210 mm
Paper weight: 60 to 80 g/m²



4. Turn the screw on the left hinge as necessary so that you feel resistance when pulling out the strip of paper.
- * If you feel a strong resistance, turn the screw clockwise.
If you feel a feeble resistance, turn the screw counterclockwise.

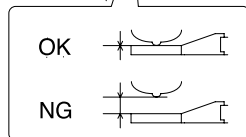
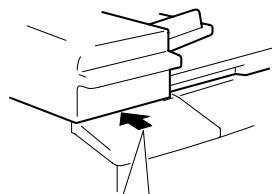


- * As guidelines for the force to pull out the strip of paper, it is equivalent to that exerted when lifting the inner guide plate with a finger.



- * After the Reverse Automatic Document Feeder has been adjusted for height, tighten the nut which has been loosened in step 2.

■ Checking for Skew Feed

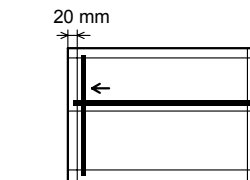


4344U045AB

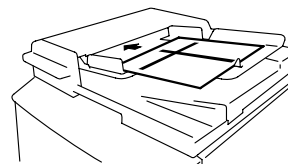
5. Check the clearance between the document scanning glass surface and the protrusion on the Reverse Automatic Document Feeder side.

* There should be a clearance of 0.5 mm or less when the Reverse Automatic Document Feeder is pressed in the direction of the arrow.

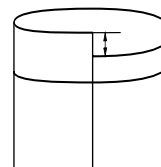
- If the clearance is more than 0.5 mm, loosen the nut on the right hinge as viewed from the control panel side and turn the height adjusting screw as necessary to adjust the height.
- * If the clearance is large, turn the screw clockwise.
- After the adjustment has been made, positively tighten the nut on the right hinge.



4688U042AB



4344U046AB



4688U001AB

1. Test chart (A3) of the attachment is prepared.

* Copy Paper
Inch area: 11 × 17
Metric area: A3

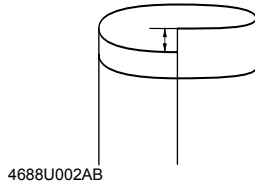
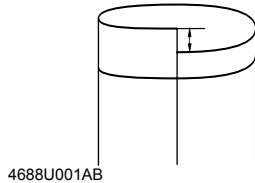
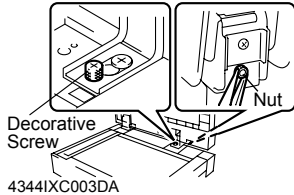
2. Plug in the power cord and turn ON the Power Switch of the machine.

3. Load the test chart in the Reverse Automatic Document Feeder and make one 1-sided copy five consecutive times.

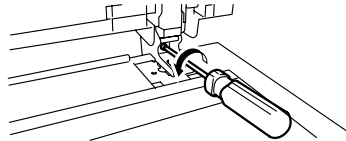
4. Fold each of the sample copies as illustrated and check for any deviation.
Specifications: 0 ± 3.0 mm

* If the deviation does not fall within the specified range, perform the following adjustment procedure.

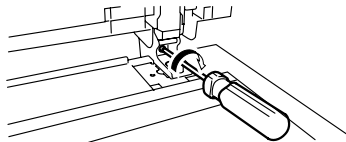
■ Adjusting Skew Feed



1. Loosen the Decorative Screw on the right hinge viewed from the front.
2. Loosen the nut on the back of the hinge and adjust the position of the Reverse Automatic Document Feeder as detailed below.
3. If there is a deviation as shown on the figure, turn the screw counterclockwise to adjust it.



4. If there is a deviation as shown on the figure, turn the screw clockwise to adjust it.



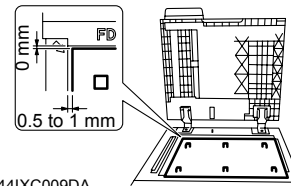
5. After the adjustment procedure has been completed, tighten with a screwdriver the screw which has been loosened in step 1.
6. Tighten the nut on the back of the hinge.

■ Affixing the Document Pad

1. Raise the Reverse Automatic Document Feeder.
2. Remove the Document Pad from the Reverse Automatic Document Feeder.

NOTE

When removing the Document Pad, pull apart the hook and loop fastener one by one. Pulling them all at once may damage the sponge.



3. With the rear edge of the Document Pad pressed up against the Original Length Scale, place it on the Original Glass so that its left edge is 0.5 to 1.0 mm away from the Original Width Scale.

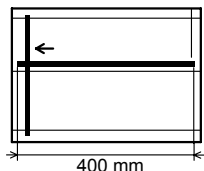
4. Gently lower the Reverse Automatic Document Feeder.

NOTE

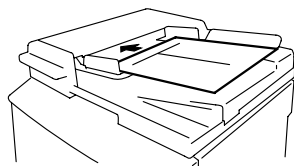
When lowering the Reverse Automatic Document Feeder, use utmost care to prevent the Document Pad from deviating from its correct position.

5. Gently raise the Reverse Automatic Document Feeder and press the Document Pad up against the Reverse Automatic Document Feeder by hand so that it is affixed in position.

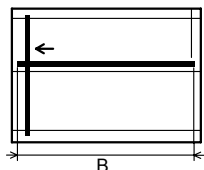
■ Checking the Reference Zoom Ratio



4344U054AA



4344U047AA



4344U054AA

1. Test chart (A3) of the attachment is prepared.

2. Load the test chart in the Reverse Automatic Document Feeder and make a full-size copy.

3. Check that the lengths of the reference lines reproduced on the copy, B (FD), meet the following specifications.

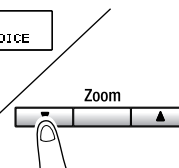
Reference Line Registration Specifications:
B (FD): 400 ± 6.0 mm (± 1.5 %)

- If the length of the line reproduced on the copy falls outside the specified range, make the "Zoom Adjustment."
- If the length of the line reproduced on the copy falls within the specified range, go to "Registration Check" on p. 7.

■ Zoom Ratio Adjustment and Registration Adjustment

SERVICE MODE
1. SERVICE'S CHOICE

4506U008AA



C4506O009CA

1. Call the Service mode to the Display. (For the procedure to call the Service mode to the Display, see the Service Manual.)

2. Press the ▼ key once to show the Adjust mode.

SERVICE MODE
2. ADJUST

4688U208AA

Yes

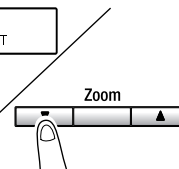


4506U022AA

3. Press the Yes key.

2. ADJUST
PRN MAIN REGIST

1382U005CB



C4506O009CA

4. Press the ▼ key six times.

2. ADJUST
ADF SUB ZOOM

1382U004CA

Yes



4506U022AA

5. Press the Yes key.

TEST COPY=START
ADJUST=YES

Yes

4688U211AA

4506U022AA

6. Press the Yes key.

ADF SUB ZOOM=100
↑, ↓ & YES

Yes

4688U212AA

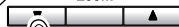
4506U022AA

8. After the setting value has been entered, press the Yes key.

9. Make a copy and check again.

ADF SUB ZOOM=100
↑, ↓ & YES

Zoom



4688U212AA

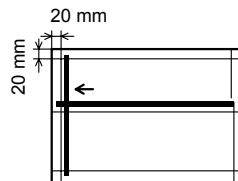
C4506O009CA

7. Change the setting value using the ▼ or ▲ key. Study the following table for the appropriate setting value.

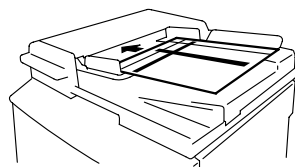
- If dimension (A) is greater than the specified range, decrease the setting value.
- If dimension (A) is smaller than the specified range, increase the setting value.

Setting Value	Detail	Setting Value	Detail
87	94.8%	101	100.4%
88	95.2%	102	100.8%
89	95.6%	103	101.2%
90	96.0%	104	101.6%
91	96.4%	105	102.0%
92	96.8%	106	102.4%
93	97.2%	107	102.8%
94	97.6%	108	103.2%
95	98.0%	109	103.6%
96	98.4%	110	104.0%
97	98.8%	111	104.4%
98	99.2%	112	104.8%
99	99.6%	113	105.2%
100	100.0%		

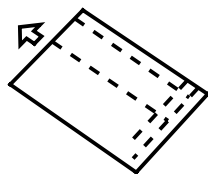
■ Registration Check (full size copy, 2-sided original/2-sided copy)



4344U053AA

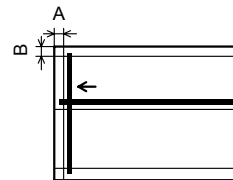


4344U048AB



4344U052AC

1. Test chart (A3) of the attachment is prepared.



4344U053AA

2. Place the test chart in the Reverse Automatic Document Feeder.
3. Make a full size copy.

4. Make a full size copy using the 2-sided original/2-sided copy mode.
(Face down the test chart.)

5. Check that the margins reproduced on the copy meet the following specifications.

- * In full size copy mode
Margin Registration Specifications:
Width A: 20 ± 2.5 mm
Width B: 20 ± 2.0 mm
- * In 2-sided original mode
Margin Registration Specifications:
Width A: 20 ± 3.0 mm

If the margins reproduced on the copy fall outside the specified range, make the "Registration Adjustment."

■ Registration CD Adjustment (Width B)

1. Call the Service mode to the Display. (For the procedure to call the Service mode to the Display, see the Service Manual.)

SERVICE MODE
1. SERVICE'S CHOICE

4506U008AA

2. ADJUST
ADF MAIN REGIST

1382U003CA

Yes

4506U022AA

2. Press the ▼ key once to show the Adjust mode.

SERVICE MODE
1. SERVICE'S CHOICE

4506U008AA

Zoom

C4506O009CA

TEST COPY=START
ADJUST=YES

4688U211AA

Yes

4506U022AA

3. Press the Yes key.

SERVICE MODE
2. ADJUST

4688U208AA

Yes

4506U022AA

4. Press the ▼ key seven times.

2. ADJUST
PRN MAIN REGIST

1382U005CB

Zoom

C4506O009CA

ADF MAIN REGIST=100
↑, + & YES

4688U214AA

Zoom

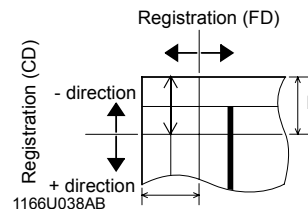
C4506O009CA

5. Press the Yes key.

6. Press the Yes key.

7. Referring to the illustration shown on the left, change the setting value using the ▼ or ▲ key.

- If the line deviates on the - side, increase the setting value.
- If the line deviates on the + side, decrease the setting value.
(Refer to the table below for the setting values.)



• Registration CD Setting Values

Setting Value	Detail	Setting Value	Detail
20	-8.0 mm	101	+0.1 mm
21	-7.9 mm	102	+0.2 mm
⋮	⋮	⋮	⋮
59	-4.1 mm	129	+2.9 mm
60	-4.0 mm	130	+3.0 mm
61	-3.9 mm	131	+3.1 mm
⋮	⋮	⋮	⋮
98	-0.2 mm	178	+7.8 mm
99	-0.1 mm	179	+7.9 mm
100	0	180	+8.0 mm

ADF MAIN REGIST=100
↑, ↓ & YES

Yes

4688U214AA

4506U022AA

8. After the setting value has been entered, press the Yes key.

9. Make a copy and check again.

■ Registration FD Adjustment (Width A)

1. Call the Service mode to the Display. (For the procedure to call the Service mode to the Display, see the Service Manual.)

SERVICE MODE
1. SERVICE'S CHOICE

4506U008AA

SERVICE MODE
1. SERVICE'S CHOICE

4506U008AA

Zoom



C4506O009CA

2. Press the ▼ key once to show the Adjust mode.

SERVICE MODE
2. ADJUST

4688U208AA

Yes



4506U022AA

3. Press the Yes key.

2. ADJUST
PRN MAIN REGIST

1382U005CB

Zoom

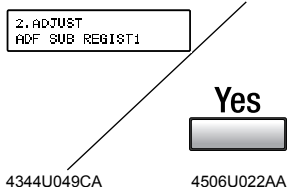


C4506O009CA

4. Press the ▼ key eight times.

NOTE

Press the ▼ key nine times for adjustment of 2-sided copies.



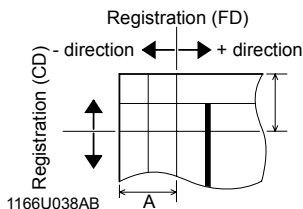
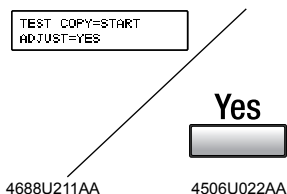
5. Press the Yes key.

NOTE

The following screen will appear if the ▼ key is pressed nine times in step 4.

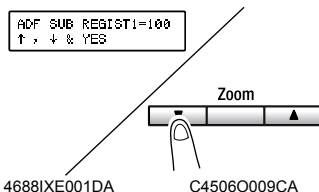


6. Press the Yes key.



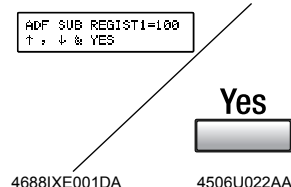
7. Referring to the illustration shown on the left, change the setting value using the ▼ or ▲ key.

- If the line deviates on the - side, decrease the setting value.
 - If the line deviates on the + side, increase the setting line.
- (Refer to the table below for the setting values.)



• Registration FD Setting Values (1-sided/2-sided)

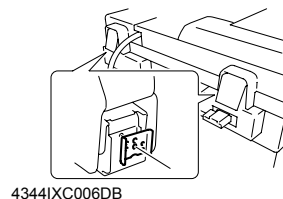
Setting Value	Detail	Setting Value	Detail
50	-5.0 mm	101	+0.1 mm
51	-4.9 mm	102	+0.2 mm
52	-4.8 mm	103	+0.3 mm
⋮	⋮	⋮	⋮
69	-3.1 mm	129	+2.9 mm
70	-3.0 mm	130	+3.0 mm
71	-2.9 mm	131	+3.1 mm
⋮	⋮	⋮	⋮
98	-0.2 mm	148	+4.8 mm
99	-0.1 mm	149	+4.9 mm
100	0	150	+5.0 mm



8. After the setting value has been entered, press the Yes key.

9. Make a copy and check again.

■ Changing the Stopper Position



1. Remove the stopper from the hinge of the Reverse Automatic Document Feeder.
2. Change the set position of the stopper to the upper side and secure it in position.

NOTE

Use care not to fold the mylar at the right and left hinges.