Buffer Pass Unit Type S3 Machine Code: D795

Field Service Manual

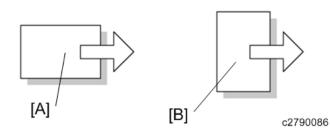
Safety, Conventions, Trademarks

Conventions

Common Terms

This is a list of symbols and abbreviations used in this manual.

Symbol	What it means	
0P	Screw	
F	Connector	
(Pa)	E-ring	
N	Clip ring	
Ş	Harness clamp	
FFC	Flexible Film Cable	
JG	Junction Gate	
LE	Leading Edge of paper	
LEF	Long Edge Feed	
SEF	Short Edge Feed	
TE	Trailing Edge of paper	



- [A] Short Edge Feed (SEF)
- [B] Long Edge Feed (LEF)

Warnings, Cautions, Notes

In this manual, the following important symbols and notations are used.

⚠ WARNING

• A Warning indicates a potentially hazardous situation. Failure to obey a Warning could result in death or serious injury.

ACAUTION

 A Caution indicates a potentially hazardous situation. Failure to obey a Caution could result in minor or moderate injury or damage to the machine or other property.

 Obey these guidelines to avoid problems such as misfeeds, damage to originals, loss of valuable data and to prevent damage to the machine.



• This information provides tips and advice about how to best service the machine.

Responsibilities of the Customer Engineer

Reference Material for Maintenance

- Maintenance shall be done using the special tools and procedures prescribed for maintenance of
 the machine described in the reference materials (service manuals, technical bulletins, operating
 instructions, and safety guidelines for customer engineers).
- Use only consumable supplies and replacement parts designed for use of the machine.

The Aim of Anti-tip Components and Precautions

The anti-tip components are necessary for meeting the requirements of IEC60950-1, the international standard for safety.

The aim of these components is to prevent the products, which are heavy in weight, from toppling as a result of people running into or leaning onto the products, which can lead to serious accidents such as persons becoming trapped under the product. (U.S.: UL60950-1, Europe: EN60950-1)

Therefore, removal of such components must always be with the consent of the customer.

Do not remove them at your own judgment.

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1. Replacement and Adjustment

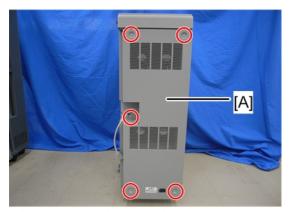
Exterior Covers

ACAUTION

- Disconnect the power cord from the inlet of the buffer pass unit and unplug the mainframe before starting the following procedure.
- Do not pull out the buffer pass unit drawer until this unit has been docked to the mainframe. Otherwise, the buffer pass unit can fall down.

Rear Cover

1. Rear cover [A] (x 5)



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Top Cover

- 1. Rear cover (page 5 "Rear Cover")
- 2. Open the front door [A].



3. Remove two screws on the front upper side ($^{\textcircled{m}}$ x 2).



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4. Push the top cover [A] to the front, and then remove it.



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Right Cover

1. Right cover [A] (@ x 6)



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Left Cover

1. Left cover [A] (x 6)



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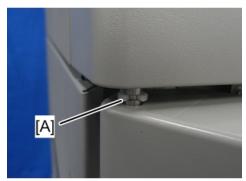
Front Door

1. Open the front door [A].



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2. Clip [A] (🕅 x 1)



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3. Lift the front door [A] off the hinge and remove it (ground screw x 1, $\ensuremath{\mathfrak{G}}\xspace^{-1}x$ 1).





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Drive Components

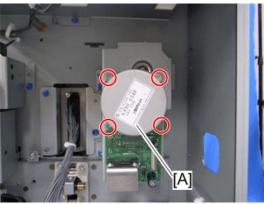
ACAUTION

- Disconnect the power cord from the inlet of the buffer pass unit and unplug the mainframe before starting the following procedure.
- Do not pull out the buffer pass unit drawer until this unit has been docked to the mainframe.
 Otherwise, the buffer pass unit can fall down.

Drive Motor

There are two drive motors (right and left) in the buffer pass unit. Both removal procedures are identical.

- 1. Rear cover (page 5 "Rear Cover")
- 2. Controller board bracket (page 20 "Controller Board")
- 3. Drive Motor [A] (\$\mathbb{O} \times 4, \mathbb{O} \times 1)

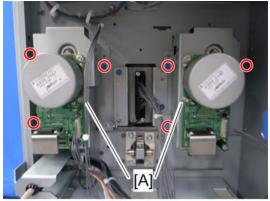


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Drive Motor Base

Removing the Drive Motor Base

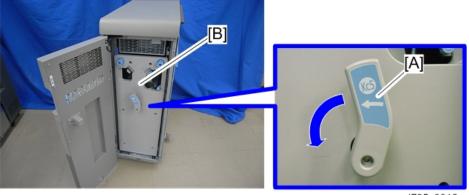
- 1. Rear cover (page 5 "Rear Cover")
- 2. Controller board bracket (page 20 "Controller Board")
- 3. Drive Motor Bases [A] (@x3, \$\times x1 each)



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Reinstall the Drive Motor Base

- 1. Open the front door.
- 2. Turn the Kc5 lever [A] completely counterclockwise, and then pull out the paper path unit [B] slightly.



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- 3. Install the drive motor bases. (@x 3, \$\sim x1 \text{ each})
- 4. Push the paper path unit in completely.
- 5. Push in the paper path unit completely and close the front door.
- 6. Attach the rear cover.
- 7. Close the front door.

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Cooling and Exhaust Fans

ACAUTION

- Disconnect the power cord from the inlet of the buffer pass unit and unplug the mainframe before starting the following procedure.
- Do not pull out the buffer pass unit drawer until this unit has been docked to the mainframe. Otherwise, the buffer pass unit can fall down.

Cooling Fans

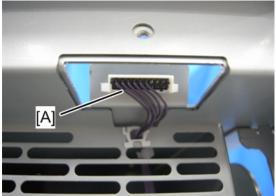
Upper Cooling Fans

- 1. Open the front door.
- 2. Remove two screws and the bracket [A] ($\mathfrak{D}^{\mu} \times 2$).



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3. Disconnect the harness [A] (x 1).

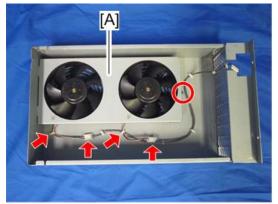


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4. Pull out the upper cooling fan unit [A].

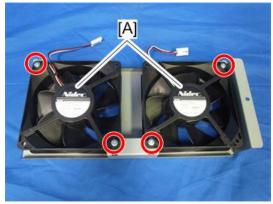


5. Upper cooling fan bracket [A] (☞x 1, ☞x 2, x 2)



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6. Upper cooling fans [A] (x 2 each)



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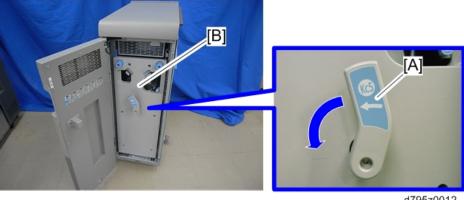


- When reinstalling the upper cooling fans, make sure that the decals on the fans face downward.
- When reinstalling the upper cooling fan unit, set the left and right guides of the upper cooling fan unit into the cutouts in the buffer pass unit as shown below.



Lower Cooling Fans

- 1. Open the front door.
- 2. Turn the Kc5 handle [A] counter-clockwise, and then pull out the paper path unit [B].



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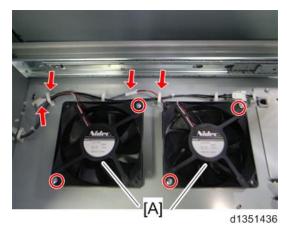
ACAUTION

- When you pull out the paper path unit, take care that the buffer pass unit does not fall down to the front. This is because the paper path unit is heavier than the buffer pass unit.
- 3. Left cover (page 7 "Left Cover")
- 4. Lower cooling fan cover [A]. (x 2)



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5. Lower cooling fans [A] (☞ x 2 each, ⋘ 2, ☞ x 2)



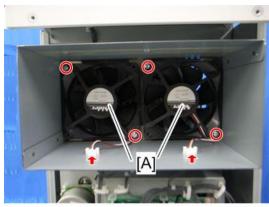
U Note

• Make sure that the decals on the fans face downward when reinstalling the lower cooling fans.

Exhaust Fans

Upper Exhaust Fans

- 1. Rear cover (page 5 "Rear Cover")
- 2. Upper exhaust fans [A] (x 2 each, x 1 each)



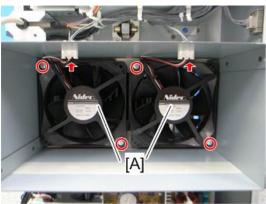
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 Make sure that the decals on the fans are upside down and face the rear side when reinstalling the upper exhaust fans.

Lower Exhaust Fans

- 1. Rear cover (page 5 "Rear Cover")
- 2. Lower exhaust fans [A] (x 2 each, x 1 each)



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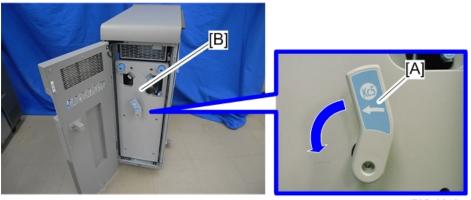
• Make sure that the decals on the fans face the rear side when reinstalling the lower exhaust fans.

ACAUTION

- Disconnect the power cord from the inlet of the buffer pass unit and unplug the mainframe before starting the following procedure.
- Do not pull out the buffer pass unit drawer until this unit has been docked to the mainframe. Otherwise, the buffer pass unit can fall down.

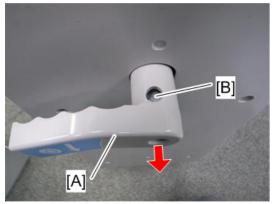
Transport Sensors

- 1. Open the front door.
- 2. Turn the Kc5 handle [A] counter-clockwise, and then pull out the paper path unit [B].



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3. Kc5 handle [A] (@F[B] x 1)



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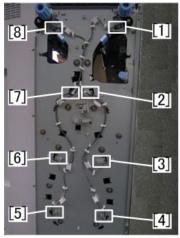
4. Front inner cover [A] (x 6)

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5. Remove sensors with their brackets (each 🍑 x1, 🗣 x1, 🗲 x1)



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- [1] Transport Sensor 1
- [2] Transport Sensor 2
- [3] Transport Sensor 3
- [4] Transport Sensor 4
- [5] Transport Sensor 5
- [6] Transport Sensor 6
- [7] Transport Sensor 7
- [8] Transport Sensor 8
- 6. Transport sensor [A] (hook x 4, Fx 1)

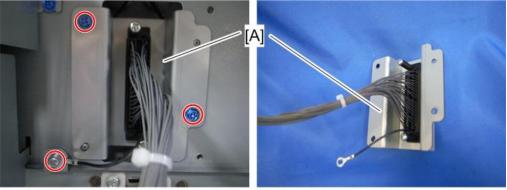


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Switches

Paper Path Unit Set Switch

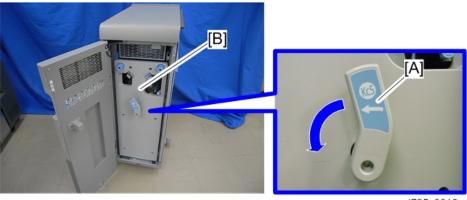
- 1. Rear cover (page 5 "Rear Cover")
- 2. Controller board bracket (page 20 "Controller Board")
- 3. Paper path unit set switch [A] (x3)



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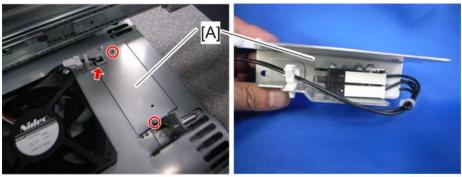
Front Door Switch

- 1. Left cover (page 7 "Left Cover")
- 2. Open the front door.
- 3. Turn the Kc5 handle [A] counter-clockwise, and then pull out the paper path unit [B].



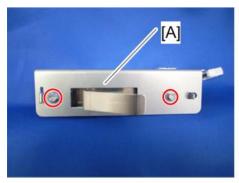
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- 4. Lower cooling fan cover (page 13 "Lower Cooling Fans")
- 5. Front door switch assembly [A] ($^{\textcircled{m}}$ x 2, $^{\textcircled{m}}$ x 2, $^{\textcircled{m}}$ x 1)



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- 7. Front door switch bracket [B]





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Electronic Components

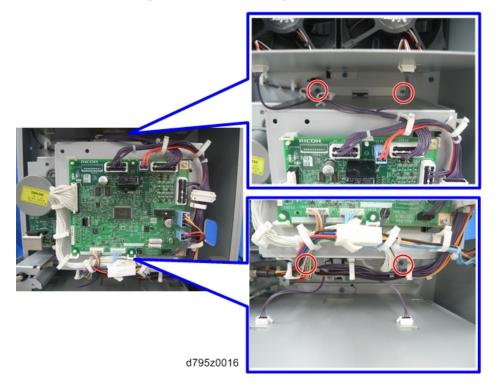
ACAUTION

- Disconnect the power cord from the inlet of the buffer pass unit and unplug the mainframe before starting the following procedure.
- Do not pull out the buffer pass unit drawer until this unit has been docked to the mainframe. Otherwise, the buffer pass unit can fall down.

Controller Board

Controller Board Bracket

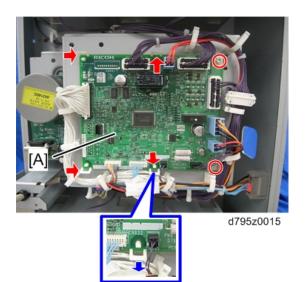
- 1. Rear cover (page 5 "Rear Cover")
- 2. Controller board bracket (௴x 4, ℋx all, ⋘ all)



Controller Board

- 1. Rear cover (page 5 "Rear Cover")
- 2. Controller board [A] (x all, x 2, hook x 4)

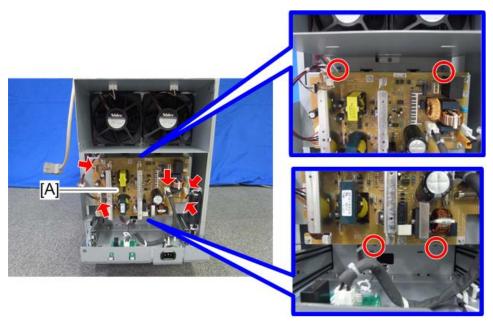
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PSU

Removing the PSU

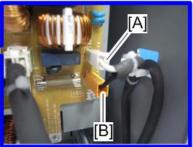
- 1. Rear cover (page 5 "Rear Cover")
- 2. PSU bracket [A] (* x 4, * x 5)



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Make sure that the power connectors are connected correctly.





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- [A]: White connector
- [B]: Black or brown connector

PSU Fuse Rating

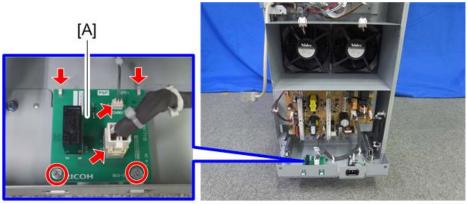
ACAUTION

• For replacements, use only the correct fuses rated for use with the machine. Using replacement devices not designed for use with the machine could lead to a fire and personal injuries.

Fuse	Rating		
ruse	115 V	210 to 230V	
FU1	15A/250Vac	T8AH/250Vac	
FU2	T8AH/250Vac	T4AH/250Vac	

SRB

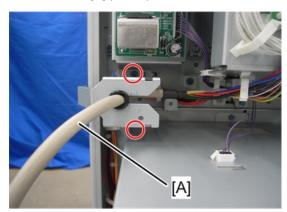
- 1. Rear cover (page 5 "Rear Cover")
- 2. SRB [A] (\$\text{SRB} x2, \$\text{SRB} x2, \$\text{hook} x 2)



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Interface Cable

- 1. Rear cover (page 5 "Rear Cover")
- 2. Interface cable [A] (© x2)



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MEMO

