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Special Tools

General Circuit Diagram

General Circuit Diagram (1/3)

General Circuit Diagram (2/3)

General Circuit Diagram (3/3)
Safety Precautions

Notes Before it Works Serving
Notes Before it Works Serving

⚠️ Caution
At servicing, be sure to turn off the power source according to the specified steps and disconnect the power plug.

⚠️ Caution
Do not turn off the power switch (of the host machine) when downloading is under way. Turning off the main power switch while downloading is under way can disable the machine.
Specifications

- Specifications
- Names of Parts
### Specifications

<table>
<thead>
<tr>
<th>Item</th>
<th>Specification</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paper storage method</td>
<td>Front loading method</td>
<td></td>
</tr>
<tr>
<td>Pickup method</td>
<td>Separation retard method</td>
<td></td>
</tr>
<tr>
<td>Paper stack capacity</td>
<td>550 sheets (80g/m² paper), 650 sheets (64g/m² paper)</td>
<td></td>
</tr>
<tr>
<td>Cassette</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Paper feed reference</td>
<td>Center reference</td>
<td></td>
</tr>
<tr>
<td>Paper Type</td>
<td>Plain paper, Thick paper, Transparency film</td>
<td></td>
</tr>
<tr>
<td>Paper grammage</td>
<td>52 to 220g/m²</td>
<td></td>
</tr>
<tr>
<td>Paper size switch</td>
<td>Size auto detection</td>
<td></td>
</tr>
<tr>
<td>Control Panel</td>
<td>None (Use the key on the host machine)</td>
<td></td>
</tr>
<tr>
<td>Display</td>
<td>None (Use the key on the host machine)</td>
<td></td>
</tr>
<tr>
<td>Environmental measure</td>
<td>Heater for paper humidity adjustment</td>
<td>Cassette heater is available as an option</td>
</tr>
<tr>
<td>Power supply</td>
<td>No</td>
<td>Option power supply of the host machine</td>
</tr>
<tr>
<td>Size</td>
<td>620(W) - 700(D) - 248(H) [mm]</td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>27.5kg</td>
<td></td>
</tr>
<tr>
<td>Max. power consumption</td>
<td>100W</td>
<td></td>
</tr>
</tbody>
</table>
Technology

- Basic Configuration
- Pickup/Feed System
- JAM Detection
- Power supply
Function

Basic Configuration

Sensor / Solenoid

- Pedestal right cover sensor (PS1)
- Cassette heater (H1)
- Pedestal controller PCB (UN1)
- Cassette 3 size switch A (SW1)
- Cassette 3 size switch B (SW2)
- Cassette 3 Retry sensor (PS8)
- Cassette 4 Retry sensor (PS9)
- Cassette 4 paper presence sensor (PS3)
- Cassette 4 paper level sensor B (PS7)
- Cassette 4 pickup solenoid (SL2)
- Cassette 4 paper level sensor A (PS6)
- Cassette 4 paper presence sensor (PS2)
- Cassette 3 Retry sensor (PS8)
- Cassette 3 pickup motor (M1)
- Cassette 3 pickup motor (M2)
- Pedestal right cover sensor (PS1)
- Cassette 3 size switch A (SW1)
- Cassette 3 size switch B (SW2)
- Cassette 3 size switch A (SW3)
- Cassette 3 size switch B (SW4)
- Cassette 3 paper presence sensor (PS2)
- Cassette 3 pickup solenoid (SL1)
- Cassette 3 paper level sensor A (PS4)
- Cassette 3 paper level sensor B (PS5)
- Cassette 3 paper presence sensor (PS3)
- Cassette 3 pickup motor (M1)
- Cassette 3 pickup motor (M2)
- Pedestal right cover sensor (PS1)
- Cassette 3 size switch A (SW1)
- Cassette 3 size switch B (SW2)
- Cassette 3 size switch A (SW3)
- Cassette 3 size switch B (SW4)
- Cassette 3 paper presence sensor (PS2)
- Cassette 3 pickup solenoid (SL1)
- Cassette 3 paper level sensor A (PS4)
- Cassette 3 paper level sensor B (PS5)
- Cassette 3 paper presence sensor (PS3)
- Cassette 3 pickup motor (M1)
- Cassette 3 pickup motor (M2)
- Pedestal right cover sensor (PS1)
Pickup/Feed System

Overview

Papers in the cassette are lifted up with the Lifter Plate. At pickup, the Pickup Roller picks up a paper by coming down and contact with paper surface. The Pickup Roller comes down when the Pickup Solenoide turns ON. A paper picked up by the Pickup Roller is fed to the feed path with the Separation Roller, and then, is fed to the Registration Roller with the Vertical Path Roller. The Vertical Path Roller, Pickup Roller, Feed Roller and Separation Roller are driven by the Cassette Pickup Motor.
**Paper Size Detection**

At the cassette pickup assembly, since the feed speed is increased, detection cannot catch up with it. Thus, delay and stationary jam detection are not executed at the Cassette 1 Pre-Registration Sensor. Instead of it, the Vertical Path Sensor executes the delay and stationary jam detection. Since the residual jam should be detected on each cassette, the Cassette 1 Pre-Registration Sensor detects it. Because the Vertical Path Sensor is too close and it is unnecessary to execute detection, the Vertical Path Sensor does not execute residual jam detection.

Cassette 3 size switch B [SW2]

Cassette 3 size switch A [SW1]

Cassette 4 size switch A [SW3]

Cassette 4 size switch B [SW4]
### Width detection

<table>
<thead>
<tr>
<th>Width</th>
<th>Length</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
</tr>
</thead>
<tbody>
<tr>
<td>B5</td>
<td>257.0</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
</tr>
<tr>
<td>EXEC</td>
<td>267.0</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
</tr>
<tr>
<td>16K</td>
<td>270.0</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
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<tr>
<td>A5-R</td>
<td>148.5</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
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<tr>
<td>A4</td>
<td>297.0</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
</tr>
<tr>
<td>STMT-R</td>
<td>139.7</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
</tr>
<tr>
<td>LTR</td>
<td>279.4</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
</tr>
<tr>
<td>B5-R</td>
<td>182.0</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
</tr>
<tr>
<td>LTR-R</td>
<td>215.9</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
</tr>
<tr>
<td>A4-R</td>
<td>210.0</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
</tr>
<tr>
<td>LGL</td>
<td>215.9</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
</tr>
<tr>
<td>B4</td>
<td>257.0</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
</tr>
<tr>
<td>8K</td>
<td>270.0</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
</tr>
<tr>
<td>A3</td>
<td>297.0</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
</tr>
<tr>
<td>LDR</td>
<td>279.4</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
</tr>
<tr>
<td>12x18</td>
<td>304.8</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
</tr>
</tbody>
</table>

### Length detection

<table>
<thead>
<tr>
<th>Width</th>
<th>Length</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
</tr>
</thead>
<tbody>
<tr>
<td>B5</td>
<td>182.0</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
</tr>
<tr>
<td>EXEC</td>
<td>184.0</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
</tr>
<tr>
<td>16K</td>
<td>195.0</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
</tr>
<tr>
<td>A5-R</td>
<td>210.0</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
</tr>
<tr>
<td>A4</td>
<td>210.0</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
</tr>
<tr>
<td>STMT-R</td>
<td>215.9</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
</tr>
<tr>
<td>LTR</td>
<td>215.9</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
</tr>
<tr>
<td>B5-R</td>
<td>257.0</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
</tr>
<tr>
<td>LTR-R</td>
<td>279.4</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
</tr>
<tr>
<td>A4-R</td>
<td>297.0</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
</tr>
<tr>
<td>LGL</td>
<td>355.6</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
</tr>
<tr>
<td>B4</td>
<td>364.0</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
</tr>
<tr>
<td>8K</td>
<td>390.0</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
</tr>
<tr>
<td>A3</td>
<td>420.0</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
</tr>
<tr>
<td>LDR</td>
<td>431.8</td>
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<td>ON</td>
<td>ON</td>
<td>ON</td>
</tr>
<tr>
<td>12x18</td>
<td>457.2</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
</tr>
</tbody>
</table>

Additionally, the cassette presence is detected when the size switch is pushed. (If no switch is pushed, it is determined as no cassette.)

### Separation paper list

It is recommended to separate the following paper depending on the paper status (especially moisture absorption) and paper trimming state when setting the paper.

This “separation” can avoid troubles.

<table>
<thead>
<tr>
<th>Paper type</th>
<th>Basis weight/name etc</th>
<th>Main area</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbonless paper</td>
<td>Overall</td>
<td>-</td>
</tr>
<tr>
<td>Transparency</td>
<td>Overall</td>
<td>-</td>
</tr>
<tr>
<td>Labels</td>
<td>Overall</td>
<td>-</td>
</tr>
<tr>
<td>Tub paper</td>
<td>Overall</td>
<td>-</td>
</tr>
<tr>
<td>Pre-punched paper</td>
<td>Overall</td>
<td>-</td>
</tr>
<tr>
<td>OK Prince Joshtsu</td>
<td>Especially thin paper, 52 gsm etc.</td>
<td>JPN</td>
</tr>
<tr>
<td>Canon Europe Canon Recycled 80 (Vision Classic White)</td>
<td>Overall</td>
<td>EUR</td>
</tr>
<tr>
<td>Canon Europe Canon High Grade (Mondi Business Paper)</td>
<td>Especially heavy paper 220/250 gsm etc.</td>
<td>EUR</td>
</tr>
<tr>
<td>Canon Digital Office Colour (Stora Enso MultiCopy Special Colour Laser)</td>
<td>Especially heavy paper 160 gsm etc.</td>
<td>EUR</td>
</tr>
</tbody>
</table>
Method of Setting Special Paper

- Service mode

\[ \text{COPIER} > \text{OPTION} > \text{CST} > \text{CSTX-UY} > \text{Setting number} \]

X: Cassette number, Y: Size category (X: 1 to 4, Y: 1 to 4)

Cassette Heater Control

This heater is controlled to keep constant internal temperature. Basically, when the Environment Switch is ON, the heater is ON regardless of ON/OFF of the main power except for during printing. (Excluding the case where the internal temperature is high)

<table>
<thead>
<tr>
<th>Size category</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>U2</td>
<td>K-LGLR, G-LTRR</td>
</tr>
<tr>
<td>U3</td>
<td>K-LGL, A-LTR, G-LTR</td>
</tr>
<tr>
<td>U4</td>
<td>B-OFI</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Setting No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>22</td>
<td>K-LGL</td>
</tr>
<tr>
<td>23</td>
<td>K-LGLR</td>
</tr>
<tr>
<td>24</td>
<td>FLSC</td>
</tr>
<tr>
<td>25</td>
<td>A-FLS</td>
</tr>
<tr>
<td>26</td>
<td>OFI</td>
</tr>
<tr>
<td>27</td>
<td>E-OFI</td>
</tr>
<tr>
<td>28</td>
<td>B-OFI</td>
</tr>
<tr>
<td>29</td>
<td>A-LTR</td>
</tr>
<tr>
<td>30</td>
<td>A-LTRR</td>
</tr>
<tr>
<td>31</td>
<td>G-LTR</td>
</tr>
<tr>
<td>32</td>
<td>G-LTRR</td>
</tr>
<tr>
<td>33</td>
<td>A-LGL</td>
</tr>
<tr>
<td>34</td>
<td>G-LGL</td>
</tr>
<tr>
<td>36</td>
<td>A-OFI</td>
</tr>
<tr>
<td>37</td>
<td>M-OFI</td>
</tr>
<tr>
<td>42</td>
<td>FA4</td>
</tr>
</tbody>
</table>

Example: When setting G-LTR to Cassette 2

\[ \text{COPIER} > \text{OPTION} > \text{CST} > \text{CST2-U3} > 3 \]
Paper level sensor

Paper level in a cassette is detected with the sensor indicated below.

<table>
<thead>
<tr>
<th>Cassette 3</th>
<th>Cassette 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paper level sensor A</td>
<td>PS4</td>
</tr>
<tr>
<td>Paper level sensor B</td>
<td>PS5</td>
</tr>
<tr>
<td>Paper sensor</td>
<td>PS2</td>
</tr>
</tbody>
</table>

- **If the paper is full**: Cassette paper level sensor B, Cassette paper level sensor B, Cassette paper level sensor A
- **If the paper is approx. half**: Cassette paper level sensor A, Cassette paper level sensor A, Cassette paper level sensor A
- **If the paper is a little**: Cassette paper level sensor A, Cassette paper level sensor A, Cassette paper presence sensor
- **If the paper is absent**: Paper tray, Fulg
JAM Detection

- Delay JAM

In case that the leading edge of paper does not reach to the sensor within the specified time after the speed of Cassette 3 and 4 Pickup Motor decreases to half.

- Stationary JAM

In case that the corresponding sensor is not turned ON within the specified time after it is turned ON.

- Power ON JAM

Before starting the warm-up rotation at power ON, check that no paper is at the sensor indicated below.

- Door open JAM

When it is detected that the door is opened during copy and printing.
Power supply

Power connection with each option

Indicating the power supply path between the Printer and Option.

When power is turned ON, the connected equipment supplies 24VDC and 5VDC to the Pedestal Controller PCB.
24VDC is used to drive the motor and solenoid. 5VDC is used to drive the sensor and IC.
In addition, 24VDC and 5VDC are supplied to the Paper Deck Unit B1 via the equipment.

Connector inside the cover is used for the connection with the printer.
3 Parts Replacement Procedure

- Remove from the host machine
- Removing the Cassette Feed Roller
- Removing the Separation Roller
- Removing the Pickup Roller
- Removing the Pickup Assembly Idler Gear

- Removing the Cassette 3 Pickup Unit
- Removing the Cassette Size Detection Unit
- Removing the Pickup Motor
- Removing the Pedestal Controll PCB
- Removing the Pedestal Right Cover
Parts Replacement

Remove from the host machine

Before removing the host machine
• Remove the Connector Cover

How to remove
1) Remove the 5 harness from the guides

2) Remove the 5 connectors

3) Remove the Connecting Fixture
• 1 screw
Removing the Cassette Feed Roller

Before removing the Cassette Feed Roller
- Remove the Cassette
- Open the Pedestal right cover

MEMO:
This procedure describes the removing steps of cassette 1 Feed Roller. Go through the same procedure for the Feed Roller of cassette 3 and cassette 4.

Note:
Do not touch the surface of Pickup Roller, Feed Roller and the Separation Roller.

How to remove
1) Remove the Cassette Feed Roller.
   - 1 tab

4) Install the cassette 3 and cassette 4.
Removing the Separation Roller

Before removing the Separation Roller
- Remove the Cassette
- Open the Pedestal right cover

How to remove

**MEMO:**
This procedure describes the removing steps of cassette 1 Separation Roller. Go through the same procedure for the Separation Roller of cassette 3 and cassette 4.

Note:
Do not touch the surface of Pickup Roller, Feed Roller and the Separation Roller.

1) Removing the Separation Roller
   - 1 tab

---

Removing the Pickup Roller

Before removing the Cassette Pickup Roller
- Remove the Cassette
- Open the Pedestal right cover

How to remove

**MEMO:**
This procedure describes the removing steps of cassette 1 Pickup Roller. Go through the same procedure for the Pickup Roller of cassette 3 and cassette 4.

Note:
Do not touch the surface of Pickup Roller, Feed Roller and the Separation Roller.

1) Removing the Pickup Roller
   - 1 pin
   - 1 tab
Removing the Pickup Assembly Idler Gear

Before removing the Pickup Assembly Idler Gear
- Remove the Cassette
- Open the Pedestal right cover
- Remove the Pickup Roller
- Remove the Feed Roller

How to remove

MEMO:
This procedure describes the removing procedure of cassette 1 Pickup Assembly Idler Gear. Go through the same procedure for the Pickup Assembly Idler Gear of cassette 3 and cassette 4.

Note:
Do not touch the surface of Pickup Roller, Feed Roller and the Separation Roller.

1) Remove the Pickup Assembly Idler Gear.
   - 1 tab

Removing the Cassette 3 Pickup Unit

Before removing the Cassette 3 Pickup Unit
- Remove the Right Front Cover
  - 1 screw
- Remove the Right Rear Cover
  1) Open the Pedestal Right Cover
  - 1 screw
2) Remove the Right Rear Cover
• 1 screw

How to remove

MEMO:
This procedure describes the removing procedure of Cassette 3 Pickup Assembly. Go through the same procedure for the Cassette 4 Pickup Assembly.

MEMO:
When connecting from host machine, remove the cassette 1 and cassette 2.
1) Pull out cassette 1 and cassette 2 and remove the Right Front Cover 3.
• 1 screw

2) Open the Pedestal Right Cover and remove the Right Lower Sub Cover 2.
1) Remove the Sensor Unit.
   • 1 screw
   • 1 connector
   • 1 harness guide

2) Remove the cassette 3 Pickup Unit
   • 4 screws

---

**Removing the Cassette Size Detection Unit**

**Before removing the Cassette Size Detection Unit**

- Remove the Right Front Cover
- Remove the Right Rear Cover
- Remove the Cassette Pickup Unit

**How to remove**

**MEMO:**
This procedure describes the removing steps of Cassette 3 Size Detection Unit. Go through the same procedure for Cassette 4 Size Detection Unit.

1) Remove the Cassette 3 Size Detection Unit
   • 1 connector
   • 1 wire saddle
   • 2 screws
Removing the Pickup Motor

Before removing the Pickup Motor
- Remove the Connector Cover
- Remove 5 connectors
- Remove Rear Cover
  - 4 screws
  - 2 hooks

MEMO:
This procedure describes the removing step of cassette 3 Pickup motor. Go through the same procedure for the Pickup motor of cassette 4.

1) Remove the upper pickup motor.
  - 1 connector
  - 3 screws
Removing the Pedestal Controll PCB

Before removing the Pedestal Controll PCB
• remove the Connector Cover
• Remove the 5 connectors
• Remove the Rear Cover

How to remove
1) Remove the Pedestal Controll PCB
• 7 connectors
• 4 screws

Removing the Pedestal Right Cover

Before removing the Pedestal Right Cover
• Open the right pedestal cover

How to remove
1) Lift up lower guide and remove the arm
2) Fit the D-cut and remove the right pedestal cover
4 Maintenance

- Periodical maintenance
- Adjustment
- Parts Configuration / Role
Maintenance

Periodical maintenance
- Periodically replacement parts
- Periodically Replaced Parts
  N / A

Consumables

Consumables

<table>
<thead>
<tr>
<th>Parts Name</th>
<th>Parts Number</th>
<th>Num</th>
<th>Interval</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Feeding roller</td>
<td>FC6-7083</td>
<td>2</td>
<td>150k</td>
<td></td>
</tr>
<tr>
<td>Separation roller</td>
<td>FC6-6661</td>
<td>2</td>
<td>150k</td>
<td></td>
</tr>
<tr>
<td>Pickup idler gear</td>
<td>FU0-0043</td>
<td>2</td>
<td>150k</td>
<td>For China only Flying Paper</td>
</tr>
</tbody>
</table>

Adjustment

Margin Adjustment

First side; Mechanical Adjusment

1) Make copies using the Cassette 3 and 4, and check that the left edge margin is 2.5±1.5mm.

MEMO: Adjustment method is same for both the Cassette 3 and 4.

2) Pull out the cassette.
3) Check the 2 scale positions on the adjusting plates.
4) Loosen the 3 fixing screws.

5) Move the adjusting plates back and forth by referring the scale checked in the step 2. As moving the adjusting plate toward the rear by 1 scale, the left edge margin becomes 1mm smaller.

MEMO:
When moving the scale, be sure that the amount of the value to be moved are the same for the 2 points.

6) Tighten the fixing screw.

7) Return the cassette to its original position.

MEMO:
When the cassette positions are uneven due to the mechanical adjustment, adjust them by loosening the screw at left side.

8) Make copies using the Cassette 3 and 4, and check that the left edge margin is 2.5±1.5mm.
Second side

1) Make 2-sided copies using the Cassette 4, and check that the left edge margin is 2.5±2.0mm.

2) As for nonstandard, change the left edge margin adjustment value for the second side of the 2-sided copy from the Cassette 3. As making the following selection:

Service Mode > COPIER > ADJUST > FEED-ADJ > ADJ-C3RE and set 1 value larger, the left edge margin becomes 0.1mm smaller.

3) Enter the value set to the left edge margin adjustment value for the second side of the 2-sided copy from the Cassette 3 as the side registration adjustment value for the second side of the 2-sided copy from the Cassette 4.

Service Mode > COPIER > ADJUST > FEED-ADJ > ADJ-C4RE

4) To enable the setting value, turn off/on the Main Power Supply of the equipment.

5) Make 2-sided copies using the Cassette 4, and check that the left edge margin is 2.5±2.0mm.

6) As for nonstandard, change the left edge margin adjustment value for the second side of the 2-sided copy from the Cassette 4. As making the following selection:

Service Mode > COPIER > ADJUST > FEED-ADJ > ADJ-C4RE and set 1 value larger, the left edge margin becomes 0.1mm smaller.

7) Enter the new adjustment value on the Service Label.

ADJ-C3RE
ADJ-C4RE

8) Get out from the service mode.

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### Parts Configuration / Role

#### Parts Configuration / Role

**Mark** | **Name** | **Part No.** | **Role** | **FUNCTION >PART-CHK** | **Pedestal controller PCB**
---|---|---|---|---|---
M1 | Cassette 3 pickup motor | FK2-7326 | Drive the pickup unit 3 | J3006 |
M2 | Cassette 4 pickup motor | FK2-7326 | Drive the pickup unit 4 | J3007 |
PS4 | Cassette 3 paper level sensor A | WG8-5848 | Detects the cassette 3 paper level | J3004 |
PS5 | Cassette 3 paper level sensor B | WG8-5848 | Detects the cassette 3 paper level | J3004 |
PS8 | Cassette 3 pre-registration sensor | WG8-5848 | Detects the cassette 3 pre-registration | J3004 |
PS2 | Cassette 3 paper sensor | WG8-5848 | Detects whether paper is loaded in the cassette 3 | J3004 |
PS6 | Cassette 4 paper level sensor A | WG8-5848 | Detects the cassette 4 paper level | J3004 |
PS7 | Cassette 4 paper level sensor B | WG8-5848 | Detects the cassette 4 paper level | J3004 |
PS9 | Cassette 4 pre-registration sensor | WG8-5848 | Detects the cassette 4 pre-registration | J3004 |
PS3 | Cassette 4 paper sensor | WG8-5848 | Detects whether paper is loaded in the cassette 4 | J3004 |
PS1 | Pedestal right cover sensor | WG8-5848 | Detects the right cover open | J3004 |
SL1 | Cassette 3 pickup solenoid | FK2-0408 | controll the cassette 3 pickup timing | J3004 |
SL2 | Cassette 4 pickup solenoid | FK1-0408 | controll the cassette 4 pickup timing | J3004 |
SW1 | Cassette 3 size switch A | WC2-5680 | Detects the cassette 3 paper size | J3005 |
SW2 | Cassette 3 size switch B | WC2-5680 | Detects the cassette 3 paper size | J3005 |
SW3 | Cassette 4 size switch A | WC2-5680 | Detects the cassette 4 paper size | J3005 |
SW4 | Cassette 4 size switch B | WC2-5680 | Detects the cassette 4 paper size | J3005 |
H1 | Cassette heater | FK2-7322/7323 | | |
UN1 | Pedestal controller PCB | FM4-1202 | Controll the cassette pedestal | |

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4 Maintenance > Maintenance > Parts Configuration / Role > Parts Configuration / Role
Installation

- How to check this Installation procedure
- Checking the Contents
- Installation
- Adjustment
How to check this Installation procedure

■ When using the parts included in the package
A symbol is described on the illustration in the case of using the parts included in the package of this product.

Packaged Item

■ Symbols in the illustration
The frequently-performed operations are described with symbols in this procedure.

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Screw</td>
<td>Tighten</td>
</tr>
<tr>
<td></td>
<td>Remove</td>
</tr>
<tr>
<td>Connector</td>
<td>Connect</td>
</tr>
<tr>
<td></td>
<td>Disconnect</td>
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<tr>
<td>Harness</td>
<td>Secure</td>
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<tr>
<td></td>
<td>Free</td>
</tr>
<tr>
<td>Claw</td>
<td>Insert</td>
</tr>
<tr>
<td></td>
<td>Remove</td>
</tr>
<tr>
<td></td>
<td>Push</td>
</tr>
<tr>
<td></td>
<td>Plug in</td>
</tr>
<tr>
<td></td>
<td>Turn on</td>
</tr>
<tr>
<td>Checking instruction</td>
<td></td>
</tr>
<tr>
<td>Check</td>
<td>Visual Check</td>
</tr>
</tbody>
</table>

Checking the Contents

- [1] Cassette Pedestal X 1
- [2] Connecting Fixture X 1
- [3] Screw (RS Tightening; M3X8.5) X 1
- [4] Size Plate X 2
- [5] Connector Cover X 1
Check Items when Turning OFF the Main Power

Check that the main power is OFF.
1) Turning off the Main Power Supply Switch of the Host Machine.
2) Check that the display on the Control Panel and the Main Power Supply Lamp are turned off before disconnecting the outlet.

Unpacking the Equipment

1) Remove the container box.

2) Open the plastic, remove the 2 pads and a piece of Cardboard by lifting rear of the equipment, and move the plastic toward the pads at front.

CAUTION:
To prevent a fall, be sure not to lift this equipment while it is still in the plastic bag.
3) Remove the plastic and the remaining 2 pads by lifting the equipment.

4) Lift the equipment and bring it down from the pallet.

5) Remove all tapes affixed on outside of the equipment.

NOTE: Tapes affixed on inside of the cassette will be removed in a later step.
Installation Procedure

1) Open the Right Lower Cover.

**CAUTION:**
Be sure to open the Right Lower Cover when placing the Host Machine; otherwise, it may be damaged.

2) If there is the Right Lower Sub cover 1 of the Host Machine, remove it by using flat blade.

**NOTE:**
When installing the host machine at the same time, skip this step because the Right Lower Sub Cover is packed with the host machine.

**CAUTION:**
- The host machine weighs maximum 134kg. It is recommended to lift it with 4 people or more. However, if there is a standard to handle a heavy load in each sales company, follow it for operation. Also, make sure to lift the machine with keeping it level at operation.
- Because the gravity center is in the rear, lift with care.
3) Hold the 4 handles on the Host Machine, and place it on the equipment by aligning corners at front of the Host Machine and the equipment.

**CAUTION:**
When placing the Host Machine on the equipment, be sure to move the Host Machine parallel and fit the 2 positioning pins on the upper surface of the equipment into the holes on the base plate of the Host Machine.

4) Press the Cassette Release Button and remove the Cassette 2 and 3.

**CAUTION:**
When attaching the connecting fixture, be sure the attaching direction.

5) Attach the connecting fixture.
- 1 screw (RS Tightening: M3x8.5)
6) Remove tapes and packing materials from the Cassette 3.

7) Install the Cassette 2 and 3.
8) Pull of the Cassette 4, and remove tapes and packing materials.
9) Close the Cassette 4.
10) Close the Cassette Right Lower Cover.

11) Remove the Connector Cover on the Host Machine. (The removed connector cover will no be used.)
   • 1 screw with toothed washer (The removed screw will be used in step 16.)
12) Remove tape and plastic from the harness.

13) Connect the 5 connectors to the Host Machine.
14) Put the 5 harnesses through the guides.
   • 1 Reuse Band

15) Loosen a screw on the Connector Cover packed with the equipment, and attach the grounding wire between the toothed washer and the screw.
16) Install the Connector Cover.
   • 1 screw with toothed washer (Use the screw removed in the step 11.)

17) Secure the equipment in place with the 4 adjusters.

   NOTE:
   Securing of the adjuster is not earthquake resistant.

NOTE:
- When installing the host machine simultaneously, be sure to follow "Unpacking and Installation" in the Installation Procedure Manual.
- When installing this equipment later, be sure to follow the following procedure.

18) Connect the Power Supply Plug of the Host Machine to the outlet.
19) Turn on the Main Power Supply Switch of the Host Machine.
Cassette Settings

1) Press the Cassette Release Button, and pull out the Cassette 3 and 4 toward the front.

2) Hold the Side Guide Plate Lever, and adjust it to the predefined size. At that time, move the Side Guide Plate by referring the size index (label) of the sheet size to be set, and fit it to the slot.

3) Hold the Trail Edge Guide Plate Lever, and adjust it to the predefined size. At that time, move the Trail Edge Guide Plate by referring the size index (label) of the sheet size to be set, and fit it to the slot.

4) Set papers.

5) Open the cover from which the Size Plate is pushed in.

6) Cut 2 places of the Size Plate with nippers.
7) Set the Size Plate in accordance with the size being set. (Lump the Size Plates not in use together and store them at the rear.)

8) Close the cover from which the Size Plate is pushed in, and install the cassette.
9) Set the Cassette 4 in the same way.

NOTE:
Paper size settings are automatically recognized.

### Margin Adjustment (First side; Mechanical Adjustment)

1) Make copies using the Cassette 3 and 4, and check that the left edge margin is 2.5±1.5mm.

NOTE:
The second side of the 2-sided copy mentioned later means the second side in the image formation order. With this equipment, the second side in the image formation order at the time of 2-sided copy/print is equivalent to the first side of the original.

NOTE:
Adjustment method is same for both the Cassette 3 and 4.

2) Pull out the cassette.
3) Check the 2 scale positions on the adjusting plates.
4) Loosen the 3 fixing screws.

5) Move the adjusting plates back and forth by referring the scale checked in the step 2. As moving the adjusting plate toward the rear by 1 scale, the left edge margin becomes 1mm smaller.

NOTE:
When moving the scale, be sure that the amount of the value to be moved are the same for the 2 points.

6) Tighten the fixing screw.

7) Return the cassette to its original position.

NOTE:
When the cassette positions are uneven due to the mechanical adjustment, adjust them by loosening the screw at left side.

8) Make copies using the Cassette 3 and 4, and check that the left edge margin is 2.5±1.5mm.
■ Margin Adjustment (Second side)

1) Make 2-sided copies using the Cassette 4, and check that the left edge margin is 2.5±2.0mm.

2) As for nonstandard, change the left edge margin adjustment value for the second side of the 2-sided copy from the Cassette 3. As making the following selection: Service Mode > COPIER > ADJUST > FEED-ADJ > ADJ-C3RE and set 1 value larger, the left edge margin becomes 0.1mm smaller.

3) Enter the value set to the left edge margin adjustment value for the second side of the 2-sided copy from the Cassette 3 as the side registration adjustment value for the second side of the 2-sided copy from the Cassette 4. Service Mode > COPIER > ADJUST > FEED-ADJ > ADJ-C4RE

4) To enable the setting value, turn off/on the Main Power Supply of the equipment.

5) Make 2-sided copies using the Cassette 4, and check that the left edge margin is 2.5±2.0mm.

6) As for nonstandard, change the left edge margin adjustment value for the second side of the 2-sided copy from the Cassette 4. As making the following selection: Service Mode > COPIER > ADJUST > FEED-ADJ > ADJ-C4RE and set 1 value larger, the left edge margin becomes 0.1mm smaller.

7) Enter the new adjustment value on the Service Label.
   ADJ-C3RE
   ADJ-C4RE

8) Get out from the service mode.
Appendix

- Service Tools
- General Circuit Diagram (1/3)
- General Circuit Diagram (2/3)
- General Circuit Diagram (3/3)
### Special Tools

In addition to the standard tools set, the following special tools are required when servicing the machine:

<table>
<thead>
<tr>
<th>Tool name</th>
<th>Tool No.</th>
<th>Ctrg</th>
<th>Appearance</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Digital multimeter</td>
<td>FY9-2002</td>
<td>A</td>
<td></td>
<td>Used as a probe extension when making electrical checks.</td>
</tr>
</tbody>
</table>

Reference: Category

- A: Must be kept by each service engineer.
- B: Must be kept by each group of about five engineers.
- C: Must be kept by each workshop