Application
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Caution
Use of this manual should be strictly supervised to avoid disclosure of confidential information.
### Explanation of Symbols

The following symbols are used throughout this Service Manual.

<table>
<thead>
<tr>
<th>Symbols</th>
<th>Explanation</th>
<th>Symbols</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Check" /></td>
<td>Check.</td>
<td><img src="image" alt="Remove the claw" /></td>
<td>Remove the claw.</td>
</tr>
<tr>
<td><img src="image" alt="Check visually" /></td>
<td>Check visually.</td>
<td><img src="image" alt="Insert the claw" /></td>
<td>Insert the claw.</td>
</tr>
<tr>
<td><img src="image" alt="Check the noise" /></td>
<td>Check the noise.</td>
<td><img src="image" alt="Use the bundled part" /></td>
<td>Use the bundled part.</td>
</tr>
<tr>
<td><img src="image" alt="Disconnect the connector" /></td>
<td>Disconnect the connector.</td>
<td><img src="image" alt="Push the part" /></td>
<td>Push the part.</td>
</tr>
<tr>
<td><img src="image" alt="Connect the connector" /></td>
<td>Connect the connector.</td>
<td><img src="image" alt="Plug the power cable" /></td>
<td>Plug the power cable.</td>
</tr>
<tr>
<td><img src="image" alt="Remove the cable/wire from the cable guide or wire saddle" /></td>
<td>Remove the cable/wire from the cable guide or wire saddle.</td>
<td><img src="image" alt="Turn on the power" /></td>
<td>Turn on the power.</td>
</tr>
<tr>
<td><img src="image" alt="Set the cable/wire to the cable guide or wire saddle" /></td>
<td>Set the cable/wire to the cable guide or wire saddle.</td>
<td><img src="image" alt="Tighten the screw" /></td>
<td>Tighten the screw.</td>
</tr>
</tbody>
</table>

### The following rules apply throughout this Service Manual:

1. Each chapter contains sections explaining the purpose of specific functions and the relationship between electrical and mechanical systems with reference to the timing of operation.

   In the diagrams, `bbie` represents the path of mechanical drive; where a signal name accompanies the symbol, the arrow indicates the direction of the electric signal.

   The expression "turn on the power" means flipping on the power switch, closing the front door, and closing the delivery unit door, which results in supplying the machine with power.

2. In the digital circuits, '1' is used to indicate that the voltage level of a given signal is "High", while '0' is used to indicate "Low". (The voltage value, however, differs from circuit to circuit.) In addition, the asterisk (*) as in "DRMD*" indicates that the DRMD signal goes on when '0'.

   In practically all cases, the internal mechanisms of a microprocessor cannot be checked in the field. Therefore, the operations of the microprocessors used in the machines are not discussed: they are explained in terms of from sensors to the input of the DC controller PCB and from the output of the DC controller PCB to the loads.

The descriptions in this Service Manual are subject to change without notice for product improvement or other purposes, and major changes will be communicated in the form of Service Information bulletins.

All service persons are expected to have a good understanding of the contents of this Service Manual and all relevant Service Information bulletins and be able to identify and isolate faults in the machine.
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Product Outline

- Overview
- Specifications
- Names of parts
Overview

- It is necessary when Delivery Option other than Copy Tray is installed.
- It is equipped with the function to correct paper curl.

Specifications

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimension</td>
<td>180 x 664 x 1018 (W x D x H mm)</td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>20 kg</td>
<td></td>
</tr>
<tr>
<td>Power</td>
<td>It is supplied by the connected device.</td>
<td></td>
</tr>
</tbody>
</table>
Names of parts

External View

- Upper rear cover
- Upper left cover
- Lower left cover
- Front cover

Cross-section view

- Decurler unit
Technology

- Basic configuration
- Controls
- Service work
Basic configuration

Function configuration
List of each unit function:

- Decurler unit

Parts configuration

Sensor

- Decurler HP sensor 2 (PS89)
- Decurler HP sensor 1 (PS88)
- Buffer sensor 2 (PS86)
- Buffer front cover open/closed sensor (PS87)
- Buffer sensor 1 (PS85)

Jam Detection

<table>
<thead>
<tr>
<th>Jam Detection</th>
<th>Jam Code List</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

T-2-1

F-2-2
### Roller

- Decurler adjustment cam 2
- Buffer feeding roller 2
- Decurler adjustment cam 1
- Decurler drive roller 2

### Drive Configuration

- Decurler advancement adjusting motor 2
- Decurler feeding motor 2
- Decurler advancement adjusting motor 1
- Decurler feeding motor 1
- M50
- M52
- M53
- M51
### Buffer driver PCB

<table>
<thead>
<tr>
<th>Jack No.</th>
<th>Destination</th>
</tr>
</thead>
<tbody>
<tr>
<td>J2100</td>
<td>Host machine (Relay PCB)</td>
</tr>
<tr>
<td>J2101</td>
<td>Buffer front cover open/closed switch (SW4)</td>
</tr>
<tr>
<td>J2102</td>
<td>Host machine (DC Controller PCB)</td>
</tr>
<tr>
<td>J2103</td>
<td>Decurler advancement adjusting motor 1 (M50)</td>
</tr>
<tr>
<td></td>
<td>Decurler feeding motor 1 (M51)</td>
</tr>
<tr>
<td>J2104</td>
<td>Decurler feeding motor 2 (M52)</td>
</tr>
<tr>
<td></td>
<td>Decurler advancement adjusting motor 2 (M53)</td>
</tr>
<tr>
<td>J2105</td>
<td>Buffer sensor 1 (PS85)</td>
</tr>
<tr>
<td></td>
<td>Buffer sensor 2 (PS86)</td>
</tr>
<tr>
<td></td>
<td>Buffer front cover open/closed sensor (PS87)</td>
</tr>
<tr>
<td></td>
<td>Decurler HP sensor 1 (PS88)</td>
</tr>
<tr>
<td></td>
<td>Decurler HP sensor 2 (PS89)</td>
</tr>
<tr>
<td>J2106</td>
<td>Decurler suction fan (FM30)</td>
</tr>
<tr>
<td></td>
<td>Decurler side exhaust fan (FM31)</td>
</tr>
<tr>
<td></td>
<td>Decurler lower exhaust fan (FM32)</td>
</tr>
</tbody>
</table>
Decurler control

Executed to reduce the loading height of delivered paper. Decurler pressure is switched according to image density and material, there are 11 stages (-5 to +5) in total.

Related Error Code
- E015 Error in decurler advancement control
  - 0101 Decurler HP sensor 1 (PS88) change can’t be detected in the specified time after the Decurler Advancement Adjusting Motor 1 (M50) starts driving.
  - 0201 Decurler HP sensor 2 (PS89) change can’t be detected in the specified time after the Decurler Advancement Adjusting Motor 2 (M53) starts driving.

Related User Mode
Decurler pressure is switchable.
Settings/registration (Top) > Adjustment/Maintenance > Adjust Action > Correct Curl for Each Paper Drawer
Setting Value  Face-up: -10 to 10, Face-down: -10 to 10

Related Service Mode
(Lv.1) COPIER > OPTION > CST >
- D1-CURL (Setting of curl correction amount on a pickup cassette basis (Right deck))
- D2-CURL (Setting of curl correction amount on a pickup cassette basis (Left deck))
- D3-CURL (Setting of curl correction amount on a pickup cassette basis (Cassette 3))
- D4-CURL (Setting of curl correction amount on a pickup cassette basis (Cassette 4))
- D5-CURL (Setting of curl correction amount on a pickup cassette basis (Paper Deck Unit / POD Deck Lite))
- D6-CURL (Setting of curl correction amount on a pickup cassette basis (Multi-purpose Tray))
- D7-CURL (Setting of curl correction amount on a pickup cassette basis (Multi-drawer Paper Deck (upper deck)))
- D8-CURL (Setting of curl correction amount on a pickup cassette basis (Multi-drawer Paper Deck (middle deck)))
- D9-CURL (Setting of curl correction amount on a pickup cassette basis (Multi-drawer Paper Deck (lower deck)))
Setting Value  Face-up: -10 to 10, Face-down: -10 to 10
Jam Detection

Jam Code List

<table>
<thead>
<tr>
<th>No.</th>
<th>Sensor name</th>
<th>Jam Code List for FS86/PS86</th>
</tr>
</thead>
<tbody>
<tr>
<td>xx1C</td>
<td>PS85 Buffer Sensor 1</td>
<td>xx = 01: Delay, 02: Stationary, 0A: Residue</td>
</tr>
<tr>
<td>xx1D</td>
<td>PS86 Buffer Sensor 2</td>
<td>Yes: Detect -: Not detect</td>
</tr>
</tbody>
</table>

Fan

Following is the list of fans:

<table>
<thead>
<tr>
<th>Code</th>
<th>Fan</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>FM30</td>
<td>Decurier suction fan</td>
<td>Suction of external air into the Buffer Path Unit</td>
</tr>
<tr>
<td>FM31</td>
<td>Decurier side exhaust fan</td>
<td>Exhaust in the Buffer Path Unit</td>
</tr>
<tr>
<td>FM32</td>
<td>Decurier lower exhaust fan</td>
<td>Exhaust of the Driving Assembly</td>
</tr>
</tbody>
</table>
Power unit

Following is the overview of power supply:

24V and 12V power supply for Buffer driver PCB is generated by the printer unit.

24V is mainly used at the motors and fans.

5V is mainly used at the sensors.
### Periodical service

When it gets close to its duration period, be sure to clean or replace the concerned parts.

<table>
<thead>
<tr>
<th>Item</th>
<th>Parts name</th>
<th>Interval</th>
<th>Measure</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Periodically replacement parts</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Consumables</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Periodic service</td>
<td>Buffer sensor 1</td>
<td>Timely</td>
<td>Clean</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Buffer sensor 2</td>
<td>Timely</td>
<td>Clean</td>
<td>-</td>
</tr>
</tbody>
</table>
Periodic Servicing

- Periodic Servicing List
### Periodic Servicing List

PR: Replace (Periodical parts replacement)  CR: Replace (Consumable parts)  CL: Cleaning  LU: Lubricate  AD: Adjustment  CH: Inspection

<table>
<thead>
<tr>
<th>No.</th>
<th>Parts name</th>
<th>Parts No.</th>
<th>Number</th>
<th>Work interval</th>
<th>Reference</th>
<th>Adjustment</th>
<th>Counter</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Buffer Sensor 1</td>
<td>WG8-5848</td>
<td>1</td>
<td>CL</td>
<td>With blower brush. If dirt is obvious, clean it as needed.</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>2</td>
<td>Buffer Sensor 2</td>
<td>WG8-5848</td>
<td>1</td>
<td>CL</td>
<td></td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

**Note:**
- The indication of replacement is described on the central value of the evaluation result date.
- The indication of replacement might change, depending on the environment setting and condition.
- Part No. might change following the design change etc.
Parts Replacing and Cleaning

- Parts List
- Removing from the Connected Equipment
- Pickup/Feed System
- Externals and Controls
- Periodical/Consumable Parts, Spots to Clean
### External/Internal Covers

#### Parts List

<table>
<thead>
<tr>
<th>Key No.</th>
<th>Parts Name</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>[1]</td>
<td>Buffer Pass Upper Cover</td>
<td></td>
</tr>
<tr>
<td>[2]</td>
<td>Buffer Pass Front Cover</td>
<td>(Refer to page 4-29)</td>
</tr>
<tr>
<td>[3]</td>
<td>Buffer Pass Lower Left Cover</td>
<td></td>
</tr>
<tr>
<td>[4]</td>
<td>Buffer Pass Upper Left Cover</td>
<td></td>
</tr>
<tr>
<td>[5]</td>
<td>Buffer Pass Upper Rear Cover</td>
<td></td>
</tr>
</tbody>
</table>

#### List of Periodical Consumable Parts/Locations for Periodical Cleaning

<table>
<thead>
<tr>
<th>Key No.</th>
<th>Parts Name</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>[1]</td>
<td>Buffer Sensor 1</td>
<td>(Refer to page 4-31)</td>
</tr>
<tr>
<td>[2]</td>
<td>Buffer Sensor 2</td>
<td>(Refer to page 4-31)</td>
</tr>
</tbody>
</table>
### Motor

<table>
<thead>
<tr>
<th>No.</th>
<th>Parts Name</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>M50</td>
<td>Decurler Advancement Adjusting Motor 1</td>
<td>-</td>
</tr>
<tr>
<td>M51</td>
<td>Decurler Feeding Motor 1</td>
<td>-</td>
</tr>
<tr>
<td>M52</td>
<td>Decurler Feeding Motor 2</td>
<td>-</td>
</tr>
<tr>
<td>M53</td>
<td>Decurler Advancement Adjusting Motor 2</td>
<td>-</td>
</tr>
</tbody>
</table>

### Fan

<table>
<thead>
<tr>
<th>No.</th>
<th>Parts Name</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>FM30</td>
<td>Decurler Suction Fan</td>
<td>-</td>
</tr>
<tr>
<td>FM31</td>
<td>Decurler Side Exhaust Fan</td>
<td>-</td>
</tr>
<tr>
<td>FM32</td>
<td>Decurler Lower Exhaust Fan</td>
<td>-</td>
</tr>
</tbody>
</table>
### Sensor

<table>
<thead>
<tr>
<th>No.</th>
<th>Parts Name</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>PS85</td>
<td>Buffer Sensor 1</td>
<td></td>
</tr>
<tr>
<td>PS86</td>
<td>Buffer Sensor 2</td>
<td></td>
</tr>
<tr>
<td>PS87</td>
<td>Buffer Front Cover Open/Closed Sensor</td>
<td></td>
</tr>
<tr>
<td>PS88</td>
<td>Decurler HP Sensor 1</td>
<td></td>
</tr>
<tr>
<td>PS89</td>
<td>Decurler HP Sensor 2</td>
<td></td>
</tr>
</tbody>
</table>

### Switch

<table>
<thead>
<tr>
<th>No.</th>
<th>Parts Name</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>SW4</td>
<td>Buffer Front Cover Open/Closed Switch</td>
<td></td>
</tr>
</tbody>
</table>
### Parts Replacing and Cleaning

#### Parts List

<table>
<thead>
<tr>
<th>No.</th>
<th>Parts Name</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN150 Buffer Driver PCB</td>
<td>(Refer to page 4-30)</td>
<td></td>
</tr>
</tbody>
</table>

#### Connector Layout Drawing

![Connector Layout Drawing](image-url)
<table>
<thead>
<tr>
<th>KeyNo.</th>
<th>Jack No.</th>
<th>Symbol</th>
<th>Name</th>
<th>Relay Connector</th>
<th>KeyNo.</th>
<th>Jack No.</th>
<th>Symbol</th>
<th>Name</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>J2100</td>
<td>UN150</td>
<td></td>
<td>DC Controller PCB</td>
<td>J8227</td>
<td>J7512</td>
<td>-</td>
<td>-</td>
<td>Finisher Lattice</td>
</tr>
<tr>
<td>1</td>
<td>J2100</td>
<td>UN150</td>
<td></td>
<td>DC Controller PCB</td>
<td>J8227</td>
<td>J7513</td>
<td>-</td>
<td>-</td>
<td>Finisher Lattice</td>
</tr>
<tr>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td>Relay PCB</td>
<td>J8229</td>
<td>J7514</td>
<td>-</td>
<td>-</td>
<td>Finisher Lattice</td>
</tr>
<tr>
<td>2</td>
<td>J2101</td>
<td>UN150</td>
<td></td>
<td>Buffer Driver PCB</td>
<td>J2382</td>
<td>J8229</td>
<td>-</td>
<td>-</td>
<td>Relay PCB</td>
</tr>
<tr>
<td>3</td>
<td>J2102</td>
<td>UN150</td>
<td></td>
<td>Buffer Driver PCB</td>
<td>J8230</td>
<td>J8223</td>
<td>-</td>
<td>-</td>
<td>DC Controller PCB</td>
</tr>
<tr>
<td>4</td>
<td>J2103</td>
<td>UN150</td>
<td></td>
<td>Buffer Driver PCB</td>
<td>J75108</td>
<td>J8229</td>
<td>-</td>
<td>-</td>
<td>Buffer Front Cover Open/Closed Switch</td>
</tr>
<tr>
<td>5</td>
<td>J2104</td>
<td>UN150</td>
<td></td>
<td>Buffer Driver PCB</td>
<td>J7511</td>
<td>M52</td>
<td>Decurler Advancement Adjusting Motor 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>J2104</td>
<td>UN150</td>
<td></td>
<td>Buffer Driver PCB</td>
<td>J7512</td>
<td>M53</td>
<td>Decurler Advancement Adjusting Motor 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>J2105</td>
<td>UN150</td>
<td></td>
<td>Buffer Driver PCB</td>
<td>J8222</td>
<td>13</td>
<td>J7501</td>
<td>PS86</td>
<td>Buffer Sensor 2</td>
</tr>
<tr>
<td>6</td>
<td>J2105</td>
<td>UN150</td>
<td></td>
<td>Buffer Driver PCB</td>
<td>J8222</td>
<td>14</td>
<td>J7502</td>
<td>PS88</td>
<td>Decurler HP Sensor 1</td>
</tr>
<tr>
<td>6</td>
<td>J2105</td>
<td>UN150</td>
<td></td>
<td>Buffer Driver PCB</td>
<td>J8222</td>
<td>15</td>
<td>J7503</td>
<td>PS89</td>
<td>Decurler HP Sensor 2</td>
</tr>
<tr>
<td>6</td>
<td>J2105</td>
<td>UN150</td>
<td></td>
<td>Buffer Driver PCB</td>
<td>J8222</td>
<td>16</td>
<td>J7504</td>
<td>PS85</td>
<td>Buffer Sensor 1</td>
</tr>
<tr>
<td>6</td>
<td>J2105</td>
<td>UN150</td>
<td></td>
<td>Buffer Driver PCB</td>
<td>J8222</td>
<td>17</td>
<td>J7505</td>
<td>PS87</td>
<td>Buffer Front Cover Open/Closed Sensor</td>
</tr>
<tr>
<td>7</td>
<td>J2106</td>
<td>UN150</td>
<td></td>
<td>Buffer Driver PCB</td>
<td>J7141</td>
<td>FM30</td>
<td>Decurler Suction Fan</td>
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<tr>
<td>7</td>
<td>J2106</td>
<td>UN150</td>
<td></td>
<td>Buffer Driver PCB</td>
<td>J7145</td>
<td>FM31</td>
<td>Decurler Side Exhaust Fan</td>
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<tr>
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<td>UN150</td>
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<td>Buffer Driver PCB</td>
<td>J80601</td>
<td>20</td>
<td>J7155</td>
<td>FM32</td>
<td>Decurler Lower Exhaust Fan</td>
</tr>
</tbody>
</table>
Removing From the Connected Equipment

Removing the Buffer Path Unit

1) Open the Buffer Front Cover and remove the Hinge Shaft in the direction of the arrow.

2) Turn the Jam Process Lever to the left to release it.

3) Free the Buffer Cable from the wire saddle.

4) Remove the Buffer Left Lower Cover.
   - 4 screws
   - 2 projections
5) Remove the Connection Harness Cover from the Host Machine and remove the Buffer Cable from the slot of the Connection Harness Cover.
   - 1 claw
   - 2 projections


8) Remove the Connection Harness Disconnection-proof Plate [1].
   - 2 screws [2]

9) Remove 2 Connection Metal Plates.
   - 4 screws
10) Remove the 4 shafts [A] of the Buffer Path Unit from the 4 U-slots [B] of the Host Machine to remove the Buffer Path Unit.

- 1 screw

Note:
Do not place it on the floor if it’s in a tilted position; otherwise, [C] area can be deformed.

Note:
Do not hold within the dashed-line area as shown in the figure; otherwise, the Paper Path Guide can be deformed.
Note: When placing the Buffer Path Unit on its side (sideways)
Be sure to hold Frame [D] area and Frame [E] area of the Buffer Path Unit. As for [E] area, avoid the harness to hold; otherwise, the harness can be damaged.

11) Slide the 3 hooks of the Delivery Output Upper Guide in the direction of the arrow to remove the Delivery Output Upper Guide.
   - 1 screw

12) Remove the (Front) Cover Support Plate and the (Rear) Cover Support Plate.
   - 2 screws
   - 2 claws
13) Remove the (Front) Buffer Mounting Plate and the (Rear) Buffer Mounting Plate.
   • 4 screws
Pickup/Feed System

Removing the Rotary Frame Unit

< Advance preparation >

1) Remove the Buffer Front Cover.
(Refer to page 4-29)

1) Remove the knob.

2) Remove the Decurler Inner Cover.
   • 3 screws

3) Remove the cover.
   • 1 screw (loosen)
   • 1 screw (remove)

4) Remove the stepping motor.
   • 3 connectors
   • 1 wire saddle
   • 1 screw (loosen)
   • 2 screws (remove)
5) Remove a connector.
   • 1 wire harness guide
   • 1 edge saddle

6) Remove the Rotary Frame Unit in the arrow direction.
   • 1 fixing pin
   • 1 screw
Removing the Outlet Guide Unit (Upper)

< Advance preparation >
1) Remove the Buffer Front Cover.
(Refer to page 4-29)
2) Remove the Rotary Frame Unit.
(Refer to page 4-12)

1) Remove the Guide Cover.
• 2 screws
• 2 protrusions

2) Remove the Outlet Guide Unit.
• 1 connector
• 4 screws
Removing the Sponge Roller Support Plate Unit

< Advance preparation >
1) Remove the Buffer Front Cover.
   (Refer to page 4-29)
2) Remove the Rotary Frame Unit.
   (Refer to page 4-12)
3) Remove the Outlet Guide Unit.
   (Refer to page 4-14)

1) Remove the shaft.
   • 2 E rings
   • 2 bushings
2) Remove the Short Guide.
   • 2 screws

3) Remove the Sponge Roller Support Plate Unit.
   • 1 pulling spring
   • 1 screw
   • 1 fixing pin
Removing the Sponge Roller 1

< Advance preparation >
1) Remove the Buffer Front Cover.  
(Refer to page 4-29)
2) Remove the Rotary Frame Unit.  
(Refer to page 4-12)
3)Remove the Outlet Guide Unit.  
(Refer to page 4-14)
4) Remove the Sponge Roller Support Plate Unit.  
(Refer to page 4-15)

1) Remove the Sponge Roller.  
- 2 E rings  
- 2 bearings

Note:  
When holding the sponge roller, do not touch the sponge surface.
Removing the Sponge Roller 2

<Advance preparation>
1) Remove the Buffer Front Cover. (Refer to page 4-29)

1) Remove the knob.

2) Remove the Decurler Inner Cover.
   • 3 screws

3) Remove the Cover (Rear).
   • 1 screw (remove)
   • 1 screw (loosen)

4) Remove the Decurler Intrusion Adjustment Motor 1.
   • 1 connector
   • 1 screw (loosen)
   • 2 screws (remove)
5) Remove the Fixing Pin.
   • 1 screw

6) Remove the Upper Left Cover.
   • 4 screws
   • 3 projections

7) Move the Rotation Frame Unit in the arrow direction.
8) Remove the Sensor Support Plate.
   • 1 screw

9) Remove the Fixing Pin, and remove the Stay.
   • 1 screw

10) Remove the Fixing Pin, and remove the Sponge Roller Support Plate Unit.
    • 1 screw
CAUTION: Points to note at installation work

- Insert the Sponge Roller Support Plate Unit to the pins on the rear of the Buffer Path to install.
- Install the Sponge Roller Support Plate Unit to be above the cam of the Buffer Path.

11) Remove the Sponge Roller.

- 2 E rings
- 2 bearings

Note:
When holding the Sponge Roller, do not touch the sponge surface.
Removing the wheels

< Advance preparation >
1) Remove the Buffer Front Cover.
(Refer to page 4-29)
2) Remove the Rotary Frame Unit.
(Refer to page 4-12)
3) Remove the Outlet Guide Unit.
(Refer to page 4-14)
4) Remove the Sponge Roller Support Plate Unit.
(Refer to page 4-15)

1) Remove the Wheel Shaft.
• 1 E ring

2) Remove the wheels.
• 2 E rings
### Removing the Driven Wheels 1 Unit

#### Advance preparation:

1. Remove the Buffer Front Cover.  
   (Refer to page 4-29)
2. Remove the Rotary Frame Unit.  
   (Refer to page 4-12)
3. Remove the Outlet Guide Unit.  
   (Refer to page 4-14)

#### Steps:

1. Remove the driven wheels 1 Unit [1].
   - 2 torsion springs [2]
Removing the Driven Wheels 2 Unit

< Advance preparation >
1) Remove the Buffer Front Cover.
   (Refer to page 4-29)

1) Remove the Guide Cover Unit.
   • 1 screw
   • 1 fixing pin

2) Remove the Driven Wheels 2 Unit [1].
   • 2 torsion springs [2]
## Removing the Feed Roller 1

### Advance preparation

1. Remove the Buffer Front Cover.
   (Refer to page 4-29)
2. Remove the Rotary Frame Unit.
   (Refer to page 4-12)

### Remove the cover.

1. **Screw (loosen)**
2. **1 screw (remove)**
3. **1 screw (loosen)**

### Remove the Stepping Motor.

- **3 connectors**
- **1 wire saddle**
- **1 screw (loosen)**
- **2 screws (remove)**
3) Keep the Door Sensor Support away.
   - 1 screw

4) Remove the Feed Roller 1 in the arrow direction.
   - 3 E rings
   - 1 gear
   - 1 parallel pin
   - 2 bearings

Note: Note when removing the gear
Be careful not to drop the parallel pin and not to be lost.
Removing the Feed Roller 2

< Advance preparation >

1) Remove the Buffer Front Cover.
   (Refer to page 4-29)

1) Remove the cover.
   • 1 screw (remove)
   • 1 screw (loosen)

2) Remove the Stepping motor (upper side).
   • 1 connector
   • 1 wire saddle
   • 1 screw (loosen)
   • 2 screws (remove)

3) Rotate the Rotary Frame Unit in the arrow direction.

4) Remove the Upper Left Cover.
   • 4 screws
   • 3 projections
4) Remove the Feed Roller 2 in the arrow direction.

- 3 E rings
- 1 gear
- 1 parallel pin
- 2 bushings

**Note:** Note when removing the gear
Be careful not to drop the parallel pin and not to be lost.
1) Remove the Buffer Front Cover.
• 2 hinge shafts
## Removing the Buffer Driver PCB

1) Open the Buffer Front Cover.

2) Remove the Upper Cover.
   - 2 screws (loosen)
   - 2 protrusions

3) Remove all the connectors on the board.
   - 8 connectors

4) Remove the Buffer Driver PCB.
   - 4 screws

---

*Images showing the steps of removing the Buffer Driver PCB.*
## Periodical/Consumable Parts, Spots to Clean

### Cleaning the Buffer Sensor 1

1) Open the Buffer Front Cover.

2) Turn the Jam Process Lever to the left.

3) Clean the Buffer Sensor 1 with the Blower.

![Jam Process Lever](image)

### Cleaning the Buffer Sensor 2

1) Open the Buffer Front Cover.

2) Turn the Rotation Frame to the right.

3) Clean the Buffer Sensor 2 with the Blower.

![Rotation Frame](image)
Adjustments

- Overview
- Adjustment Method
### Overview

The following is adjustment items list.

<table>
<thead>
<tr>
<th>Item</th>
<th>As needed basis</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adjustment of Curl Correction Level</td>
<td>Yes</td>
<td>p. 5-2</td>
</tr>
</tbody>
</table>

### Adjustment Method

#### Adjustment of Curl Correction Level

1) Select the item to be highlighted.
   - (Lv.1) COPIER > OPTION > CST >
     - D1-CURL (Setting of curl correction amount on a pickup cassette basis (Right deck))
     - D2-CURL (Setting of curl correction amount on a pickup cassette basis (Left deck))
     - D3-CURL (Setting of curl correction amount on a pickup cassette basis (Cassette 3))
     - D4-CURL (Setting of curl correction amount on a pickup cassette basis (Cassette 4))
     - D5-CURL (Setting of curl correction amount on a pickup cassette basis (Paper Deck Unit / POD Deck Lite))
     - D6-CURL (Setting of curl correction amount on a pickup cassette basis (Multi-purpose Tray))
     - D7-CURL (Setting of curl correction amount on a pickup cassette basis (Multi-drawer Paper Deck (upper deck)))
     - D8-CURL (Setting of curl correction amount on a pickup cassette basis (Multi-drawer Paper Deck (middle deck)))
     - D9-CURL (Setting of curl correction amount on a pickup cassette basis (Multi-drawer Paper Deck (lower deck)))

2) Between the two input fields at the right next to the item, select one to be highlighted.
   - Select the left side field in case of setting the curl correction amount for the Face-up.
   - Select the right side field in case of setting the curl correction amount for the Face-down.
   - Setting Value: Face-up: -10 to 10, Face-down: -10 to 10

3) Enter the setting value and switch the code (-/+ key) using -/+ key, and then press OK key.

4) Turn OFF and then ON the main power switch.

---

**Note:**

This function can also be used in user mode.

Settings/registration (Top) > Adjustment/Maintenance > Adjust Action

> Correct Curl for Each Paper Drawer

By the following operation, Curl Correction Level can be set by paper.

1) Select; (Lv.1) COPIER > OPTION > DSPLY-SW > IMGC-ADJ and specify "1".

2) Select; Settings/registration (Top) > Preferences > Paper Settings > Paper Type
   Management Settings and duplicate the paper.

3) Select the duplicated paper and press [Details/Edit] button.

4) In [Curl Correction Level] item on Details/Edit screen, specify the Curl Correction Level.

5) Select; Settings/registration (Top) > Preferences > Paper Settings > Paper Settings
   Drawer and register the paper that the Curl Correction Level has been specified to in a desired pickup cassette.
6

Installation

- How to check this installation procedure
- Product Name
- Checking the Contents
- Check Items when Turning OFF the Main Power
- Unpacking
- Installation Procedure
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.

Screw
- Tighten
- Remove

Connector
- Connect
- Disconnect

Harness
- Secure
- Free

Claw
- Insert
- Remove
- Push
- Plug in
- Turn on

Checking instruction
- Check
- Visual Check
- Sound Check

Product Name
Safety regulations require the product's name to be registered. In some regions where this product is sold, the following name may be registered instead.

• F276603
## Checking the Contents

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Buffer Path Unit X 1</td>
</tr>
<tr>
<td>2</td>
<td>Buffer Mounting Plate (Front) X 1</td>
</tr>
<tr>
<td>3</td>
<td>Buffer Mounting Plate (Rear) X 1</td>
</tr>
<tr>
<td>4</td>
<td>Delivery Outlet Upper Guide X 1</td>
</tr>
<tr>
<td>5</td>
<td>Buffer Left Lower Cover X 1</td>
</tr>
<tr>
<td>6</td>
<td>Buffer Front Cover X 1</td>
</tr>
<tr>
<td>7</td>
<td>Cover Support Plate (Front) X 1</td>
</tr>
<tr>
<td>8</td>
<td>Cover Support Plate (Rear) X 1</td>
</tr>
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<td>9</td>
<td>Connecting Harness Cover X 1</td>
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<tr>
<td>10</td>
<td>Hinge Shaft X 2</td>
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<tr>
<td>11</td>
<td>Screw (RS Tightening; M4x8) X 13</td>
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<tr>
<td>12</td>
<td>Screw (P Tightening; M4x10) X 1</td>
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<tr>
<td>13</td>
<td>Wire Saddle X 1</td>
</tr>
</tbody>
</table>

## Check Items when Turning OFF the Main Power

Check that the main power switch is OFF.

1) Open the Switch Cover and turn OFF the main power switch.
2) Check that both the Control Panel display and the main power lamp are turned off, and then disconnect the power plug.
Unpacking

NOTE:
When holding the Buffer Path Unit without unpacking from plastic, it may be slipped. Be sure to open the plastic before starting work.

CAUTION:
Be sure not to hold the area within the dashed line area shown in the figure below; otherwise, the Paper Path Guide may be deformed.

CAUTION:
When holding the Buffer Path Unit, be sure to hold the frame [A] area and frame [B] area. When holding the frame [B] area, be sure to avoid the harness to prevent damaging it.

1) Lift the Buffer Path Unit directly above, and place it with its bottom surface down.

CAUTION:
Be sure not to move the unit while using the [A] area as a fulcrum point or place it on the floor in a tilted position. Otherwise, the [A] area may be deformed.

2) Remove the tapes.
3) Remove the Rear Cover, and remove the packing material and tape.
   • 2 Screws

4) Install the Rear Cover. (2 Screws)

1) Remove the 2 Handle Covers. (The removed Handle Cover will not be used.)
   • 1 Claw
   • 1 Protrusion

2) Install the Buffer Mounting Plate (Front) and the Buffer Mounting Plate (Rear).
   • 4 Screws (RS Tightening; M4 x 8)
3) Remove the Left Lower Cover 1.
   - 2 Screws (The removed Left Lower Cover and Screws will not be used.)

4) Install the Cover Support Plate (Front) and the Cover Support Plate (Rear).
   - 2 Claws
   - 2 Screws (RS Tightening; M4 x 8)

5) Put the 3 hooks of the Delivery Outlet Upper Guide into the holes of the Reverse Door Cover, and slide in the direction of the arrow to install the Delivery Outlet Upper Guide.
   - 1 Screw (P Tightening; M4 x 10)

CAUTION:
Before installing the Buffer Path Unit to the Host Machine, check that the Jam Process Lever is positioned as shown in the figure.
6) Put the 4 shafts [A] of the Buffer Path Unit into the 4 U-shaped slots [B] on the left side of the Host Machine, and install the equipment.

**CAUTION:**
Be careful not to come in contact with Delivery Outlet Upper Guide at installation.

7) Shift the Buffer Path Unit in the direction of the arrow, and fix it while pushing it on the Buffer Mounting Plate (Front).

- 1 screw (RS Tightening; M4 x 8)

8) Insert a flat-blade screwdriver, and remove the Connector Cover. (The removed Connector Cover will not be used.)

- 1 Claw
- 2 Protrusions

9) Install the Connecting Harness Stopping Plate.

- 2 Screws (RS Tightening; M4 x 8)

**CAUTION:**
Be careful not to trap the harnesses with the Connecting Harness Stopping Plate.
10) Connect the 3 connectors to the Host Machine.

11) Put the Buffer Cable through the groove of the Connecting Harness Cover, and install the Connecting Harness Cover to the Host Machine.
   - 2 Protrusions
   - 1 Claw

12) Install the Buffer Left Lower Cover.
   - 2 Protrusions
   - 4 Screws (RS Tightening; M4 x 8)

NOTE: In case of connecting to the downstream equipment, secure the cover at the [A] point together with the Shunt Cable.

13) Install the Wire Saddle and secure the Buffer Cable with the Wire Saddle.
14) Rotate the Jam Process Lever in counter clockwise direction and make the machine in paper pass condition shown in the figure below.

15) Align the hinge positions of the Buffer Front Cover and the Buffer Path Unit in 2 places, and insert the Hinge Shaft in the direction of the arrow.

16) Close the Buffer Front Cover.

17) When the Buffer Front Cover is misaligned when viewed from the front, loosen 2 screws [A], and after adjusting the side position of the Front Cover, tighten screws.
Appendix

General Circuit Diagram