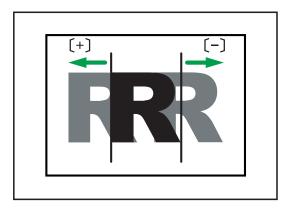
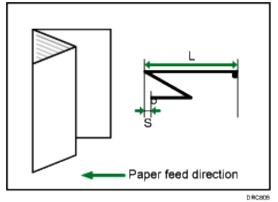
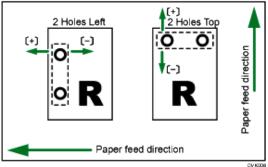
Adjustment Settings for Operators





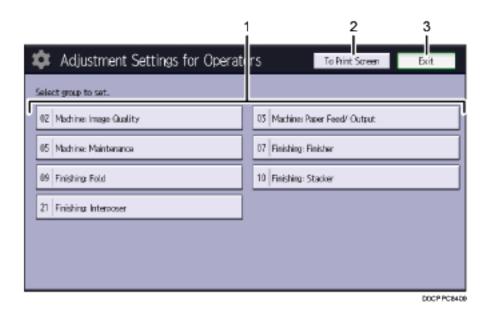




### **Adjustment Settings for Operators**

# How to Use the [Adjustment Settings for Operators] Screen

This section explains how to use the Adjustment Settings for Operators.



#### 1. Adjustment items

Adjustment items are displayed in this area. When you select an item, its configuration screen will then open.

#### 2. [To Print Screen]

Press this key to display the print screen. You can use this screen to view the changes you have made.

#### 3. [Exit]

Press this key to close the Adjustment Settings for Operators menu.



All items in Adjustment Settings for Operators appear regardless of which of the machine's
optional components are installed. If you change the settings of options that are not installed, the
changes will have no effect.

### **Adjustment Settings for Operators**

### **Opening Adjustment Settings for Operators**

1. Press [Adjustment Settings for Operators] on the Home screen.



#### **Closing Adjustment Settings for Operators**

- 1. After completing the settings, press [Back] twice.
- 2. Press [Exit] to close the Adjustment Settings for Operators screen.

#### **Features of the Displayed Items and Setting Operations**

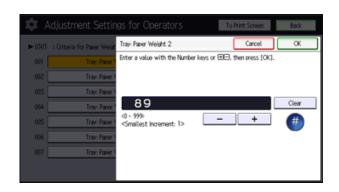
The following operations are available for each adjustment item:

- · Value setting
- · Item setting
- Executing
- Display only

#### Value setting

Press [+] to increase the value, or [-] to decrease. You can also use the number keys to enter numbers.

Select [OK] to apply the new setting.



# **Adjustment Settings for Operators**

#### Item setting

Select the item you require. Select [OK] to apply the new setting.



### **Executing**

Press [OK] to perform a selected function.



### **Display Only**

You can check the setting of the selected item.



### **Adjustment Settings for Operators**

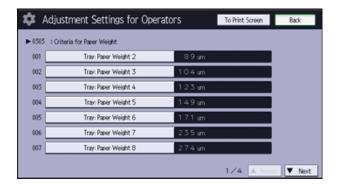
### **Printing with Adjusted Settings**

To print with the settings you have adjusted, be sure to select the paper tray and paper size to which the settings apply.

- Settings adjustable for each paper tray
- Settings adjustable for each paper size

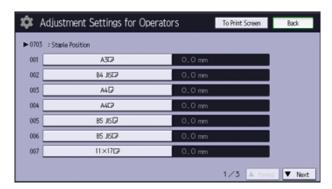
### Settings adjustable for each paper tray

- These are settings adjustable for each paper tray.
- Print jobs are processed with the adjusted settings when printing from a tray with the applied settings.



### Settings adjustable for each paper size

- These are settings adjustable for each paper size.
- Print jobs are processed with the adjusted settings when printing with a paper size that has the applied settings.





 For details about selecting the paper tray and paper size for printing, see the manuals for the related functions.

### **Adjustment Settings for Operators**

#### Menu Items and Function

All items in Adjustment Settings for Operators appear regardless of which of the machine's optional components are installed. If you change the settings of options that are not installed, the changes will have no effect.

#### 02: Machine: Image Quality

#### 0209: Photoconductor Special Mode

Increase the amount of lubricant applied to the photoconductor.

If you continuously print images that consume a lot of toner, white spots may appear because of a lack of lubricant. If this happens, you can prevent the spots by selecting [On].

In Special Mode, the replacement cycle of the cleaning unit for the PCU is shorter because of the increased amount of lubricant that is applied.

| Setting Items | Selection | Default Value |  |
|---------------|-----------|---------------|--|
| Black         | Off       | Off           |  |
| Cyan          | On        |               |  |
| Magenta       |           |               |  |
| Yellow        |           |               |  |

#### 0210: Smooth Fusing Belt

Remove vertical and horizontal lines from the printouts.

Vertical or horizontal lines may appear when printing on paper that is larger than the paper used immediately before it.

In such case, press [OK] to cause a roller to press on the fusing belt and prevent vertical and horizontal lines. Select [For Belt Scratches] if vertical or horizontal lines appear on the edges of the paper. Select [For Uneven Gloss (Short Time)] if there are patches of uneven glossiness.

| Setting Items                 | Selection   |
|-------------------------------|-------------|
| For Belt Scratches            | Press [OK]. |
| For Uneven Gloss (Short Time) |             |

# **Adjustment Settings for Operators**

#### 0211: Fusing Ability by Feed Speed

Increase fusing performance.

Fusing quality may vary depending on the ambient temperature, paper being used, and configuration of options. If this happens, select [Thick Paper Priority] to increase the fusing quality by decreasing the printing speed.

| Setting Items   | Selection            | Default Value |
|-----------------|----------------------|---------------|
| Feed Speed Mode | Standard             | Standard      |
|                 | Thick Paper Priority |               |

#### 0214: Fusing Ability by Feed Speed

Specify whether or not to automatically execute [For Uneven Gloss (Short Time)] for smooth fusing belt.

| Setting Items  | Selection | Default Value |
|----------------|-----------|---------------|
| Control Method | Off       | Off           |
|                | Auto      |               |

### **Adjustment Settings for Operators**

### 03: Machine: Paper Feed/ Output

#### 0303: Criteria for Paper Weight

The machine may fail to correctly detect the weight of the paper loaded in the paper tray. This may happen even if you have specified the correct paper weight in [Tray Paper Settings].

If this happens, you can adjust the machine so the printing conditions are suitable by inputting a numerical value (um) for the thickness of the paper.

| Setting Items                       | Default<br>Value | Max.<br>Value | Min.<br>Value | Step | Unit |
|-------------------------------------|------------------|---------------|---------------|------|------|
| Tray: Paper Weight 2                | 89               | 999           | 0             | 1    | um   |
| Tray: Paper Weight 3                | 104              | 999           | 0             | 1    | um   |
| Tray: Paper Weight 4                | 123              | 999           | 0             | 1    | um   |
| Tray: Paper Weight 5                | 149              | 999           | 0             | 1    | um   |
| Tray: Paper Weight 6                | 171              | 999           | 0             | 1    | um   |
| Tray: Paper Weight 7                | 235              | 999           | 0             | 1    | um   |
| Tray: Paper Weight 8                | 274              | 999           | 0             | 1    | um   |
| Tray: Paper Weight 9                | 317              | 999           | 0             | 1    | um   |
| Bypass Tray: Paper Weight 2         | 89               | 999           | 0             | 1    | um   |
| Bypass Tray: Paper Weight 3         | 104              | 999           | 0             | 1    | um   |
| Bypass Tray: Paper Weight 4         | 123              | 999           | 0             | 1    | um   |
| Bypass Tray: Paper Weight 5         | 149              | 999           | 0             | 1    | um   |
| Bypass Tray: Paper Weight 6         | 171              | 999           | 0             | 1    | um   |
| Bypass Tray: Paper Weight 7         | 235              | 999           | 0             | 1    | um   |
| Bypass Tray: Paper Weight 8         | 274              | 999           | 0             | 1    | um   |
| Bypass Tray: Paper Weight 9         | 317              | 999           | 0             | 1    | um   |
| LCT Connection Unit: Paper Weight 2 | 89               | 999           | 0             | 1    | um   |
| LCT Connection Unit: Paper Weight 3 | 104              | 999           | 0             | 1    | um   |

# **Adjustment Settings for Operators**

| Setting<br>Items                    | Default<br>Value | Max.<br>Value | Min<br>Value | Step | Unit |
|-------------------------------------|------------------|---------------|--------------|------|------|
| LCT Connection Unit: Paper Weight 4 | 123              | 999           | 0            | 1    | um   |
| LCT Connection Unit: Paper Weight 5 | 149              | 999           | 0            | 1    | um   |
| LCT Connection Unit: Paper Weight 6 | 171              | 999           | 0            | 1    | um   |
| LCT Connection Unit: Paper Weight 7 | 235              | 999           | 0            | 1    | um   |
| LCT Connection Unit: Paper Weight 8 | 274              | 999           | 0            | 1    | um   |
| LCT Connection Unit: Paper Weight 9 | 317              | 999           | 0            | 1    | um   |

### 0308: Connection Unit: Registration Gate Home Position

Adjust optimum value to increase the accuracy of Skew Correction depending on paper weight. If the image is highly skewed, adjust the value to [+] direction for thin paper, [-] direction for thick paper.

| Setting<br>Items | Max.<br>Value | Min<br>∀alue | Step | Unit |
|------------------|---------------|--------------|------|------|
| Paper Weight 1   | 9             | -8           | 1    | None |
| Paper Weight 2   |               |              |      |      |
| Paper Weight 3   |               |              |      |      |
| Paper Weight 4   |               |              |      |      |
| Paper Weight 5   |               |              |      |      |
| Paper Weight 6   |               |              |      |      |
| Paper Weight 7   |               |              |      |      |
| Paper Weight 8   |               |              |      |      |
| Paper Weight 9   |               |              |      |      |
|                  |               |              |      |      |

### **Adjustment Settings for Operators**

#### 05: Machine: Maintenance

#### 0509: Execute Developer Refreshing

The machine uses degraded toner in the development unit and adds new toner from the toner bottle. Refresh the toner for print jobs if:

- Background is dirty
- White spots appear
- Density is uneven
- Black parts are faded

| Setting Items  | Values      |
|----------------|-------------|
| All Colors     | Press [OK]. |
| Cyan, Magenta, |             |
| Yellow Black   |             |
| Cyan           |             |
| Magenta        |             |
| Yellow         |             |

#### 0511: Temperature / Humidity outside the Machine

Display the external temperature and humidity.

Report this information if your service representative requests it.

| Setting Items           | Remarks             |  |
|-------------------------|---------------------|--|
| Temperature<br>Humidity | Value display only. |  |
| Trainiarty              |                     |  |

#### 0512: Back Up / Restore Custom Paper Data

Back up and restore custom paper profiles.

With [Back Up Custom Paper Settings], custom paper profiles registered under the [Edit Custom Paper] setting can be backed up to the SD card inserted in the side of the control panel.

With [Restore Custom Paper Settings], custom paper profiles backed up with [Back Up Custom Paper Settings] can be restored.

| Setting Items                 | Selection   |
|-------------------------------|-------------|
| Back Up Custom Paper Settings | Press [OK]. |
| Restore Custom Paper Settings |             |

### **Adjustment Settings for Operators**

#### 0513: Switch Print Screen

Set the function displayed when pressing [To Print Screen].

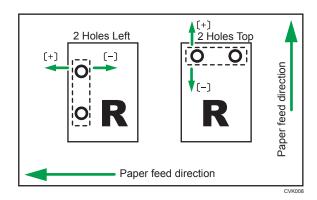
| Setting Item | Values  | Deault Value |  |
|--------------|---------|--------------|--|
| Print Screen | Copier  | Copier       |  |
|              | Printer |              |  |

### 07: Finishing: Finisher

#### 0701: Punch Position: With Feed

Adjust the horizontal position of the punch holes when using Finisher SR5090 or Booklet Finisher SR5100.

Press [+] to move the position toward the top edge (left) relative to the paper feed direction, or [-] to move it toward the bottom edge (right).

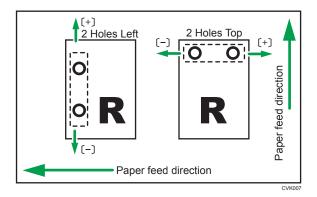


| Setting Items        | Default<br>Value | Max.<br>Value | Min.<br>Value | Step | Unit |
|----------------------|------------------|---------------|---------------|------|------|
| 2 Holes Type JP / EU | 0.0              | 2.0           | -2.0          | 0.5  | mm   |
| 3 Holes Type US      |                  |               |               |      |      |
| 4 Holes Type EU      |                  |               |               |      |      |
| 4 Holes Type NE      |                  |               |               |      |      |
| 2 Holes Type US      |                  |               |               |      |      |
| 1 Hole Type JP       |                  |               |               |      |      |

### **Adjustment Settings for Operators**

#### 0702: Punch Position: Across Feed

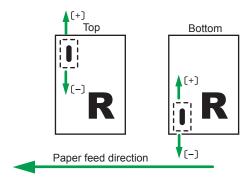
Adjust the vertical position of the punch holes when using Finisher SR5090 or Booklet Finisher SR5100. Press [+] to move the position forward (up), or [-] to move it backward (down).



Default Max. Min. **Setting Items** Unit Step Value Value Value 2 Holes Type JP / EU 3 0.0 2.0 -2.0 0.4 mm Holes Type US 4 Holes Type EU 4 Holes Type NE 2 Holes Type US 1 Hole Type JP

#### 0703: Staple Position

Adjust the vertical position of the staples when using Finisher SR5090 or Booklet Finisher SR5100. Press [+] to move the position forward (up), or [-] to move it backward (down).



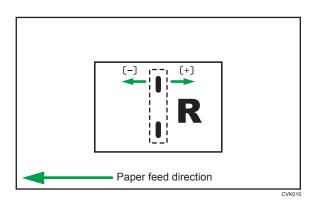
CVK009

# **Adjustment Settings for Operators**

| Setting Items                              | Default<br>Value | Max.<br>Value | Min.<br>Value | Step | Unit |
|--|------------------|---------------|---------------|------|------|
| A3D  | 0.0              | 1.0           | -1.0          | 0.5  | mm   |
| B4 JIS□                                    |                  |               |               |      |      |
| A4D  |                  |               |               |      |      |
| A40  |                  |               |               |      |      |
| B5 JISD                                    |                  |               |               |      |      |
| B5 JIS□                                    |                  |               |               |      |      |
| 11×17□                                     |                  |               |               |      |      |
| 8 <sup>1</sup> / <sub>2</sub> ×14 <b>D</b> |                  |               |               |      |      |
| $8^{1}/_{2} \times 13^{2}/_{5}$            |                  |               |               |      |      |
| 8 <sup>1</sup> / <sub>2</sub> ×11□         |                  |               |               |      |      |
| 8 <sup>1</sup> / <sub>2</sub> ×11□         |                  |               |               |      |      |
| 8K□  |                  |               |               |      |      |
| 16K <sup>D</sup>                           |                  |               |               |      |      |
| 16K□                                       |                  |               |               |      |      |
| Other Paper Sizes                          |                  |               |               |      |      |

#### 0704: Staple Position for Booklet

Adjust the horizontal position of the booklet staples when using Booklet Finisher SR5100. Press [+] to move the position right (across horizontally-spreading pages), or press [-] to move it left.



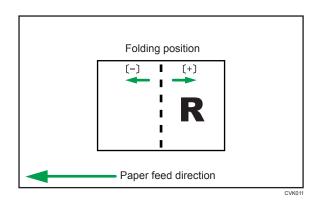
# **Adjustment Settings for Operators**

| Setting Items                                  | Default<br>Value | Max.<br>Value | Min.<br>Value | Step | Unit |
|--|------------------|---------------|---------------|------|------|
| A3D  | 0.0              | 3.0           | -3.0          | 0.2  | mm   |
| B4 JIS□  | 0.0              | 3.0           | -3.0          | 0.2  | mm   |
| A4D  | 0.0              | 3.0           | -3.0          | 0.2  | mm   |
| B5 JIS□  | 0.0              | 3.0           | -3.0          | 0.2  | mm   |
| 12 × 18□                                       | 0.0              | 1.8           | -1.8          | 0.2  | mm   |
| 11 × 17D                                       | 0.0              | 3.0           | -3.0          | 0.2  | mm   |
| 8 <sup>1</sup> / <sub>2</sub> ×14 <sup>-</sup> | 0.0              | 3.0           | -3.0          | 0.2  | mm   |
| $8^{1}/_{2} \times 13^{2}/_{5}$                | 0.0              | 3.0           | -3.0          | 0.2  | mm   |
| 8 <sup>1</sup> / <sub>2</sub> ×11□             | 0.0              | 3.0           | -3.0          | 0.2  | mm   |
| 8KD  | 0.0              | 3.0           | -3.0          | 0.2  | mm   |
| Other Paper Sizes                              | 0.0              | 1.8           | -1.8          | 0.2  | mm   |

#### 0705: Folding Position for Booklet

Adjust the horizontal position of the folding when using Booklet Finisher SR5100.

Press [+] to move the position right (across horizontally-spreading pages), or press [-] to move it left.



# **Adjustment Settings for Operators**

| Setting Items                      | Default<br>Value | Max.<br>Value | Min.<br>Value | Step | Unit |
|------------------------------------|------------------|---------------|---------------|------|------|
| A3D                                | 0.0              | 3.0           | -3.0          | 0.2  | mm   |
| B4 JIS□                            |                  |               |               |      |      |
| A4D                                |                  |               |               |      |      |
| B5 JIS□                            |                  |               |               |      |      |
| 12 × 18 <b>□</b>                   |                  |               |               |      |      |
| 11×17 <b>□</b>                     |                  |               |               |      |      |
| 8 <sup>1</sup> / <sub>2</sub> ×14□ |                  |               |               |      |      |
| $8^{1}/_{2} \times 13^{2}/_{5}$    |                  |               |               |      |      |
| 8 <sup>1</sup> / <sub>2</sub> ×11□ |                  |               |               |      |      |
| 8KC                                |                  |               |               |      |      |
| Other Paper Sizes                  |                  |               |               |      |      |

| Setting Items                | Default<br>Value | Max.<br>Value | Min.<br>Value | Step | Unit |
|------------------------------|------------------|---------------|---------------|------|------|
| A3□: 1-5 sheet(s)            | 0.0              | 3.0           | -3.0          | 0.2  | mm   |
| A3□: 6-10 sheets             |                  |               |               |      |      |
| A3□: 16 sheets or more       |                  |               |               |      |      |
| B4□ : 1-5 sheet(s)           |                  |               |               |      |      |
| B4□: 6-10 sheets             |                  |               |               |      |      |
| B4□: 11-15 sheets            |                  |               |               |      |      |
| B4□: 16 sheets or more       |                  |               |               |      |      |
| A4□: 1-5 sheet(s)            |                  |               |               |      |      |
| A4 <sup></sup> : 6-10 sheets |                  |               |               |      |      |
| A4□: 11-15 sheets            |                  |               |               |      |      |
| A4□: 16 sheets or more       |                  |               |               |      |      |
| B5□: 1-5 sheet(s)            |                  |               |               |      |      |
| B5□ : 6-10 sheets            |                  |               |               |      |      |
| B5□: 11-15 sheets            |                  |               |               |      |      |
| B5□: 16 sheets or more       |                  |               |               |      |      |
|                              |                  |               |               |      |      |
|                              |                  |               |               |      |      |
|                              |                  |               |               |      |      |
|                              |                  |               |               |      |      |
|                              |                  |               |               |      |      |
|                              |                  |               |               |      |      |
|                              |                  |               |               |      |      |
|                              |                  |               |               |      |      |

### **Adjustment Settings for Operators**

#### 0706: Folding Speed for Booklet

Specify the folding speed for booklets when using the Booklet Finisher SR5100.

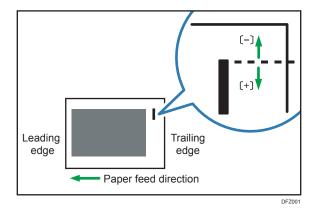
You can adjust the paper folding strength by changing the folding speed for booklet folding. By decreasing the folding speed, you can increase the paper folding strength.

| Setting Items                              | Selection | Default Value |
|--|-----------|---------------|
| A3₽  | High      | High          |
| B4 JIS□                                    | Middle    |               |
| A4D  | Low       |               |
| B5 JIS□                                    |           |               |
| 12×18□                                     |           |               |
| 11×17□                                     |           |               |
| $8^{1}/_{2} \times 14 \square$             |           |               |
| $8^{1}/_{2} \times 13^{2}/_{5}$            |           |               |
| 8 <sup>1</sup> / <sub>2</sub> ×11 <b>□</b> |           |               |
| 8K□  |           |               |
| Other Paper Sizes                          |           |               |

#### 0801: Staple Position: Across Feed 1

Adjust the vertical position of the staple (applied at an edge) when using Finisher SR5110 or Booklet Finisher SR5120.

Press [+] to move the stapling position away from the side edge of the sheet or [-] to move it toward the edge.

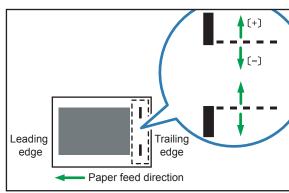


# **Adjustment Settings for Operators**

#### 0802: Staple Position: Across Feed 2

Adjust the vertical position of the staples (dual) when using Finisher SR5110 or Booklet Finisher SR5120.

Press [+] to move the two stapling positions away from the center and each other or [-] to move them toward each other.

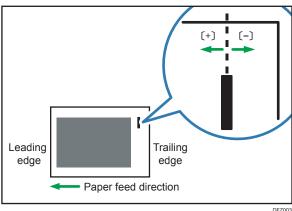


| Setting Items                                   | Default<br>Value | Max.<br>Value | Min.<br>Value | Step | Unit |
|---|------------------|---------------|---------------|------|------|
| A3D   | 0                | 115           | -14.5         | 0.1  | mm   |
| B4 JIS□   | 0                | 75            | -14.5         | 0.1  | mm   |
| A4D   | 0                | 115           | -14.5         | 0.1  | mm   |
| A4D   | 0                | 28            | -14.5         | 0.1  | mm   |
| B5 JISD   | 0                | 75            | -14.5         | 0.1  | mm   |
| B5 JIS□   | 0                | 0             | -14.5         | 0.1  | mm   |
| 11 × 17 🗗                                       | 0                | 98            | -14.5         | 0.1  | mm   |
| 8 <sup>1</sup> / <sub>2</sub> × 14 <b>D</b>     | 0                | 34            | -14.5         | 0.1  | mm   |
| $8^{1}/_{2} \times 13^{2}/_{5}$                 | 0                | 34            | -14.5         | 0.1  | mm   |
| 8 <sup>1</sup> / <sub>2</sub> × 11 <sup>D</sup> | 0                | 98            | -14.5         | 0.1  | mm   |
| 8 <sup>1</sup> / <sub>2</sub> × 11 <sup>D</sup> | 0                | 34            | -14.5         | 0.1  | mm   |
| 8KD   | 0                | 85            | -14.5         | 0.1  | mm   |
| 16KD  | 0                | 85            | -14.5         | 0.1  | mm   |
| 16K₽  | 0                | 12            | -14.5         | 0.1  | mm   |
| Other Paper Sizes                               | 0                | 115           | -14.5         | 0.1  | mm   |

# **Adjustment Settings for Operators**

#### 0803: Staple Position: With Feed

Adjust the horizontal position of the staples when using Finisher SR5110 or Booklet Finisher SR5120. Press [+] to move the stapling position away from the trailing edge of the sheet or [-] to move it toward the edge.

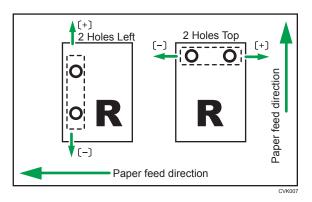


| Setting Items                       | Default<br>Value | Max.<br>Value | Min.<br>Value | Step | Unit |
|-------------------------------------|------------------|---------------|---------------|------|------|
| A3D                                 | 0                | 2             | -2            | 0.1  | mm   |
| B4 JIS□                             |                  |               |               |      |      |
| A4D                                 |                  |               |               |      |      |
| A4D                                 |                  |               |               |      |      |
| B5 JISD                             |                  |               |               |      |      |
| B5 JIS□                             |                  |               |               |      |      |
| 11×17□                              |                  |               |               |      |      |
| $8^{1}/_{2} \times 14 \square$      |                  |               |               |      |      |
| $8^{1}/_{2} \times 13^{2}/_{5}$     |                  |               |               |      |      |
| 8 <sup>1</sup> / <sub>2</sub> × 11D |                  |               |               |      |      |
| 8 <sup>1</sup> / <sub>2</sub> × 11□ |                  |               |               |      |      |
| 8K口                                 |                  |               |               |      |      |
| 16K□                                |                  |               |               |      |      |
| 16K□                                |                  |               |               |      |      |
| Other Paper Sizes                   |                  |               |               |      |      |

### **Adjustment Settings for Operators**

#### 0813: Punch Position: Across Feed

Adjust the vertical position of the punch holes when using Finisher SR5110 or Booklet Finisher SR5120. Press [+] to move the position forward (up), or [-] to move it backward (down).

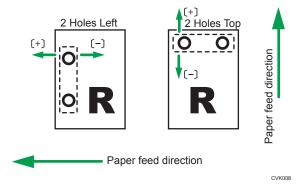


| Setting Items        | Default<br>Value | Max.<br>Value | Min.<br>Value | Step | Unit |
|----------------------|------------------|---------------|---------------|------|------|
| 2 Holes Type JP / EU | 0.0              | 2.0           | -2.0          | 0.5  | mm   |
| 3 Holes Type US      |                  |               |               |      |      |
| 4 Holes Type EU      |                  |               |               |      |      |
| 4 Holes Type NE      |                  |               |               |      |      |
| 2 Holes Type US      |                  |               |               |      |      |

#### 0814: Punch Position: With Feed

Adjust the horizontal position of the punch holes when using Finisher SR5110 or Booklet Finisher SR5120.

Press [+] to move the position toward the top edge (left) relative to the paper feed direction, or [-] to move it toward the bottom edge (right).

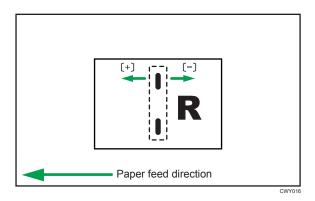


# **Adjustment Settings for Operators**

| Setting Items        | Default<br>Value | Max.<br>Value | Min.<br>Value | Step | Unit |
|----------------------|------------------|---------------|---------------|------|------|
| 2 Holes Type JP / EU | 0.0              | 4.0           | -4.0          | 0.5  | mm   |
| 3 Holes Type US      |                  |               |               |      |      |
| 4 Holes Type EU      |                  |               |               |      |      |
| 4 Holes Type NE      |                  |               |               |      |      |
| 2 Holes Type US      |                  |               |               |      |      |

#### **0825: Staple Position for Booklet**

Adjust the horizontal position of the booklet staples when using Booklet Finisher SR5120. Press [ + ] to move the position left, or press [ - ] to move it right on the open booklet.

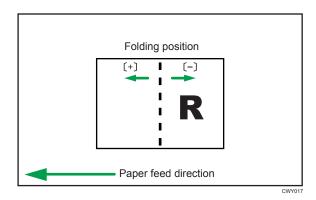


# **Adjustment Settings for Operators**

| Setting Items                         | Default<br>Value | Max.<br>Value | Min.<br>Value | Step | Unit |
|---------------------------------------|------------------|---------------|---------------|------|------|
| 13 × 19 <sup>1</sup> / <sub>5</sub> □ | 0.0              | 1.0           | -1.0          | 0.1  | mm   |
| 13 × 19□                              |                  |               |               |      |      |
| $12^3/_5 \times 19^1/_5$              |                  |               |               |      |      |
| $12^3/_5 \times 18^1/_2$              |                  |               |               |      |      |
| 13 × 18 <b>□</b>                      |                  |               |               |      |      |
| SRA3₽                                 |                  |               |               |      |      |
| 12 × 18□                              |                  |               |               |      |      |
| A3₽                                   |                  |               |               |      |      |
| B4 JIS□                               |                  |               |               |      |      |
| SRA4□                                 |                  |               |               |      |      |
| 226 × 310mm□                          |                  |               |               |      |      |
| 310 × 432mm□                          |                  |               |               |      |      |
| A4D                                   |                  |               |               |      |      |
| B5 JIS□                               |                  |               |               |      |      |
| ×    7 🗗                              |                  |               |               |      |      |
| $8^{1}/_{2} \times 13^{2}/_{5}$       |                  |               |               |      |      |
| 8 <sup>1</sup> / <sub>2</sub> × 14□   |                  |               |               |      |      |
| 8 <sup>1</sup> / <sub>2</sub> × 11 🗗  |                  |               |               |      |      |
| 8K口                                   |                  |               |               |      |      |
| 16K□                                  |                  |               |               |      |      |
| Other Paper Sizes                     |                  |               |               |      |      |

#### 0826: Folding Position for Booklet

Adjust the horizontal position of the folding when using Booklet Finisher SR5120. Press [+] to move the position left or press [-] to move it right on the open booklet.



# **Adjustment Settings for Operators**

| Setting Items                         | Default<br>Value | Max.<br>Value | Min.<br>Value | Step | Unit |
|---------------------------------------|------------------|---------------|---------------|------|------|
| 13 × 19 <sup>1</sup> / <sub>5</sub> □ | 0.0              | 1.0           | -1.0          | 0.1  | mm   |
| 13 × 19□                              |                  |               |               |      |      |
| $12^3/_5 \times 19^1/_5 \Box$         |                  |               |               |      |      |
| $12^3/_5 \times 18^1/_2$              |                  |               |               |      |      |
| 13 × 18 <b>□</b>                      |                  |               |               |      |      |
| SRA3₽                                 |                  |               |               |      |      |
| 12 × 18□                              |                  |               |               |      |      |
| A3₽                                   |                  |               |               |      |      |
| B4 JIS□                               |                  |               |               |      |      |
| SRA4□                                 |                  |               |               |      |      |
| 226 × 310mm□                          |                  |               |               |      |      |
| 310 × 432mm□                          |                  |               |               |      |      |
| A4D                                   |                  |               |               |      |      |
| B5 JIS⊡                               |                  |               |               |      |      |
| ×                                     |                  |               |               |      |      |
| $8^{1}/_{2} \times 13^{2}/_{5}$       |                  |               |               |      |      |
| 8 <sup>1</sup> / <sub>2</sub> × 14□   |                  |               |               |      |      |
| 8 <sup>1</sup> / <sub>2</sub> × 11□   |                  |               |               |      |      |
| 8K🗗                                   |                  |               |               |      |      |
| 16K□                                  |                  |               |               |      |      |
| Other Paper Sizes                     |                  |               |               |      |      |

# **Adjustment Settings for Operators**

#### 0828: Set Number of Folds for Booklet

Specify the number of booklet folds to be performed when using Booklet Finisher SR5120. You can adjust the paper folding strength by changing the number of folds per the booklet.

When you select "0", the default value, the finisher folds the booklet according to the number of sheets in the booklet, as shown below.

1-6 sheets: 1 time 7-10 sheets: 2 times 11-30 sheets: 6 times

The value set here is added to the default values. Set a negative value to reduce the number of times the finisher folds booklets.

| Setting Items               | Default<br>Value | Max.<br>Value | Min.<br>Value | Step | Unit    |
|-----------------------------|------------------|---------------|---------------|------|---------|
| Number of Folds for Booklet | 0                | 6             | -6            | 1    | time(s) |

#### 0838: Accuracy Priority for Stapling

Set the accuracy priority for stapling.

This function can be used with Finisher SR5110 or Booklet Finisher SR5120.

| Setting Item                   | Values            | Default Value  |
|--------------------------------|-------------------|----------------|
| Accuracy Priority for Stapling | Speed Priority    | Speed Priority |
|                                | Accuracy Priority |                |

#### 0839: Accuracy Priority for Booklet

Set the accuracy priority for a booklet.

This function can be used with Booklet Finisher SR5120.

| Setting Item                  | Values                           | Default Value  |
|-------------------------------|----------------------------------|----------------|
| Accuracy Priority for Booklet | Speed Priority Accuracy Priority | Speed Priority |

### **Adjustment Settings for Operators**

#### 0840: Staple Tray: Rib Installed Mode to Strengthen Paper

Set the operation when the Paper Strengthening Rib is installed to Staple Tray. This function can be used with Finisher SR5110 or Booklet Finisher SR5120. Before you set [Staple Tray: Rib Installed Mode to Strengthen Paper] to [On], attach the paper strengthening ribs.

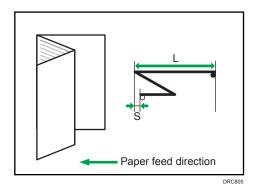
| Setting Item                                  | Values | Default Value |
|---|--------|---------------|
| Staple Tray: Rib Installed Mode to Strengthen | Off    | Off           |
| Paper   | On     |               |

#### 09: Finishing: Fold

#### 0901: Z-fold Position 1

Adjust the width of the bottom end segment (S) of Z-folded sheets when using the Paper Folding Unit. Press [+] to increase and [-] to reduce (S).

The mark indicates the leading edge (relative to the paper feed direction), and the mark indicates the trailing edge.



12 × 18□

Other Paper Sizes

8K**□** 

Setting Items Unit Step Value Value Value A3□ 0.0 4.0 -4.0 0.2 mm B4 JIS□ A4□ 11 × 17 🗗  $8^{1}/_{2} \times 14\Box$  $8^{1}/_{2} \times 11 \square$ 

Default

Max.

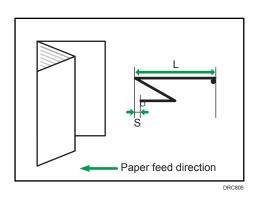
Min.

### **Adjustment Settings for Operators**

#### 0902: Z-fold Position 2

Adjust the width of the bottom end segment (S) of Z-folded sheets when using the Paper Folding Unit. Press [+] to increase and [-] to reduce (S).

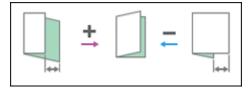
The mark indicates the leading edge (relative to the paper feed direction), and the mark indicates the trailing edge.



| Setting Items                       | Default<br>Value | Max.<br>Value | Min.<br>Value | Step | Unit |
|-------------------------------------|------------------|---------------|---------------|------|------|
| A3 🗗                                | 0.0              | 4.0           | -4.0          | 0.2  | mm   |
| B4 JIS□                             |                  |               |               |      |      |
| A4D                                 |                  |               |               |      |      |
| 11 × 17 🗗                           |                  |               |               |      |      |
| 8 <sup>1</sup> / <sub>2</sub> × 14□ |                  |               |               |      |      |
| 8 <sup>1</sup> / <sub>2</sub> × 11□ |                  |               |               |      |      |
| 12×18□                              |                  |               |               |      |      |
| 8K <b>□</b>                         |                  |               |               |      |      |
| Other Paper Sizes                   |                  |               |               |      |      |

#### 0903: Half Fold Position: 1 sheet Fold

Adjust the folding position when Folding in Two is done by the Paper Folding Unit. It applies when Single Folding is selected.

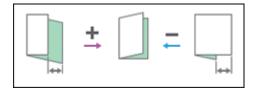


# **Adjustment Settings for Operators**

| Setting Items                         | Default<br>Value | Max.<br>Value | Min.<br>Value | Step | Unit |
|---------------------------------------|------------------|---------------|---------------|------|------|
| A3D                                   | 0.0              | 4.0           | -4.0          | 0.2  | mm   |
| B4 JIS□                               |                  |               |               |      |      |
| A4D                                   |                  |               |               |      |      |
| B5 JIS□                               |                  |               |               |      |      |
| 13 × 19□                              |                  |               |               |      |      |
| 12×18□                                |                  |               |               |      |      |
| 11 × 17 🗗                             |                  |               |               |      |      |
| $8^{1}/_{2} \times 14 \square$        |                  |               |               |      |      |
| 8 <sup>1</sup> / <sub>2</sub> × 11□   |                  |               |               |      |      |
| 8KD                                   |                  |               |               |      |      |
| 13 × 19 <sup>1</sup> / <sub>5</sub> □ |                  |               |               |      |      |
| 13 × 18□                              |                  |               |               |      |      |
| $12^3/_5 \times 18^1/_2 \square$      |                  |               |               |      |      |
| $12^3/_5 \times 19^1/_5 \square$      |                  |               |               |      |      |
| SRA3□                                 |                  |               |               |      |      |
| SRA4□                                 |                  |               |               |      |      |
| 226 × 310mm□                          |                  |               |               |      |      |
| 310 × 432mm□                          |                  |               |               |      |      |
| Other Paper Sizes                     |                  |               |               |      |      |

#### 0904: Half Fold Position: Multi-sheet Fold

Adjust the folding position when Folding in Two is done by the Paper Folding Unit. It applies when Overlap Folding is selected.

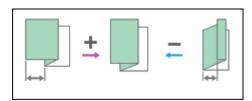


# **Adjustment Settings for Operators**

| Setting Items                         | Default<br>Value | Max.<br>Value | Min.<br>Value | Step | Unit |
|---------------------------------------|------------------|---------------|---------------|------|------|
| A3D                                   | 0.0              | 4.0           | -4.0          | 0.2  | mm   |
| B4 JIS□                               |                  |               |               |      |      |
| A4D                                   |                  |               |               |      |      |
| B5 JIS□                               |                  |               |               |      |      |
| 13 × 19□                              |                  |               |               |      |      |
| 12 × 18□                              |                  |               |               |      |      |
| 11 × 17 🗗                             |                  |               |               |      |      |
| $8^{1}/_{2} \times 14 \square$        |                  |               |               |      |      |
| 8 <sup>1</sup> / <sub>2</sub> × 11□   |                  |               |               |      |      |
| 8KD                                   |                  |               |               |      |      |
| 13 × 19 <sup>1</sup> / <sub>5</sub> □ |                  |               |               |      |      |
| 13 × 18□                              |                  |               |               |      |      |
| $12^3/_5 \times 18^1/_2 \Box$         |                  |               |               |      |      |
| $12^3/_5 \times 19^1/_5 \Box$         |                  |               |               |      |      |
| SRA3□                                 |                  |               |               |      |      |
| SRA4₽                                 |                  |               |               |      |      |
| 226 × 310mm□                          |                  |               |               |      |      |
| 310 × 432mm□                          |                  |               |               |      |      |
| Other Paper Sizes                     |                  |               |               |      |      |

#### 0905: Letter Fold-out Position 1: 1 sheet Fold

Adjust the folding position on the front end side when Outside 3 Folding is done by the Paper Folding Unit. It is applied when Single Folding is selected.

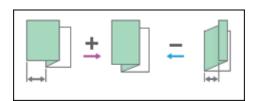


# **Adjustment Settings for Operators**

| Setting Items                        | Default<br>Value | Max.<br>Value | Min.<br>Value | Step | Unit |
|--------------------------------------|------------------|---------------|---------------|------|------|
| A3₽                                  | 0.0              | 4.0           | -4.0          | 0.2  | mm   |
| B4 JIS□                              |                  |               |               |      |      |
| A4D                                  |                  |               |               |      |      |
| B5 JIS□                              |                  | 3.0           | -3.0          |      |      |
| 12 × 18□                             |                  | 4.0           | -4.0          |      |      |
| 11 × 170                             |                  |               |               |      |      |
| $8^{1}/_{2} \times 14 \square$       |                  |               |               |      |      |
| 8 <sup>1</sup> / <sub>2</sub> × 11 □ |                  |               |               |      |      |
| 8KD                                  |                  |               |               |      |      |
| Other Paper Sizes                    |                  |               |               |      |      |

#### 0906: Letter Fold-out Position 1: Multi-sheet Fold

Adjust the folding position on the front end side when Outside 3 Folding is done by the Paper Folding Unit. It is applied when Overlap Folding is selected.

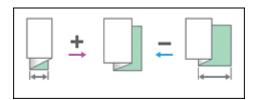


| Setting Items                        | Default<br>Value | Max.<br>Value | Min.<br>Value | Step | Unit |
|--------------------------------------|------------------|---------------|---------------|------|------|
| B4 JIS□                              | 0.0              | 4.0           | -4.0          | 0.2  | mm   |
| A4D                                  |                  |               |               |      |      |
| B5 JIS□                              |                  | 3.0           | -3.0          |      |      |
| $8^1/_2 \times 14 \square$           |                  | 4.0           | -4.0          |      |      |
| 8 <sup>1</sup> / <sub>2</sub> × 11 □ |                  |               |               |      |      |
| Other Paper Sizes                    |                  |               |               |      |      |

### **Adjustment Settings for Operators**

#### 0907: Letter Fold-out Position 2: 1 sheet Fold

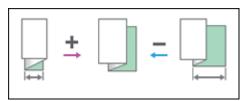
Adjust the folding position on the rear end side when Outside 3 Folding is done by the Paper Folding Unit. It is applied when Single Folding is selected.



| Setting Items                       | Default<br>Value | Max.<br>Value | Min.<br>Value | Step | Unit |
|-------------------------------------|------------------|---------------|---------------|------|------|
| A3₽                                 | 0.0              | 4.0           | -4.0          | 0.2  | mm   |
| B4 JIS□                             |                  |               |               |      |      |
| A4D                                 |                  |               |               |      |      |
| B5 JIS⊡                             |                  | 3.0           | -3.0          |      |      |
| 12 × 18□                            |                  | 4.0           | -4.0          |      |      |
| 11 × 17 🗗                           |                  |               |               |      |      |
| $8^1/_2 \times 14\Box$              |                  |               |               |      |      |
| 8 <sup>1</sup> / <sub>2</sub> × 11□ |                  |               |               |      |      |
| 8KD                                 |                  |               |               |      |      |
| Other Paper Sizes                   |                  |               |               |      |      |

#### 0908: Letter Fold-out Position 2: Multi-sheet Fold

Adjust the folding position on the rear end side when Outside 3 Folding is done by the Paper Folding Unit. It is applied when Overlap Folding is selected.

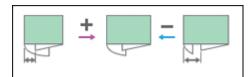


| Setting Items                       | Default<br>Value | Max.<br>Value | Min.<br>Value | Step | Unit |
|-------------------------------------|------------------|---------------|---------------|------|------|
| B4 JIS□                             | 0.0              | 4.0           | -4.0          | 0.2  | mm   |
| A4P                                 |                  |               |               |      |      |
| B5 JIS⊡                             |                  | 3.0           | -3.0          |      |      |
| 8 <sup>1</sup> / <sub>2</sub> × 14□ |                  | 4.0           | -4.0          |      |      |
| 8 <sup>1</sup> / <sub>2</sub> × 11□ |                  |               |               |      |      |
| Other Paper Sizes                   |                  |               |               |      |      |

### **Adjustment Settings for Operators**

#### 0909: Letter Fold-in Position 1: 1 sheet Fold

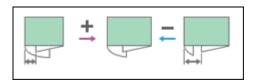
Adjust the folding position on the front end side when Inside 3 Folding is done by the Paper Folding Unit. It applies when Single Folding is selected.



| Setting Items                       | Default<br>Value | Max.<br>Value | Min.<br>Value | Step | Unit |
|-------------------------------------|------------------|---------------|---------------|------|------|
| A3D                                 | 0.0              | 4.0           | -4.0          | 0.2  | mm   |
| B4 JIS□                             |                  |               |               |      |      |
| A4D                                 |                  |               |               |      |      |
| B5 JIS□                             |                  |               |               |      |      |
| 12 × 18□                            |                  |               |               |      |      |
| ×     7 □                           |                  |               |               |      |      |
| $8^{1}/2 \times 14D$                |                  |               |               |      |      |
| 8 <sup>1</sup> / <sub>2</sub> × 11□ |                  |               |               |      |      |
| 8K□                                 |                  |               |               |      |      |
| Other Paper Sizes                   |                  |               |               |      |      |

#### 0910: Letter Fold-in Position 1: Multi-sheet Fold

Adjust the folding position on the front end side when Inside 3 Folding is done by the Paper Folding Unit. It applies when Overlap Folding is selected.



| Setting Items                       | Default<br>Value | Max.<br>Value | Min.<br>Value | Step | Unit |
|-------------------------------------|------------------|---------------|---------------|------|------|
| A3D                                 | 0.0              | 4.0           | -4.0          | 0.2  | mm   |
| B4 JIS□                             |                  |               |               |      |      |
| A4D                                 |                  |               |               |      |      |
| B5 JIS□                             |                  |               |               |      |      |
| 12 × 18□                            |                  |               |               |      |      |
| 11 × 17 🗗                           |                  |               |               |      |      |
| $8^{1}/_{2} \times 14\Box$          |                  |               |               |      |      |
| 8 <sup>1</sup> / <sub>2</sub> × 11□ |                  |               |               |      |      |
| 8KD                                 |                  |               |               |      |      |
| Other Paper Sizes                   |                  |               |               |      |      |

# **Adjustment Settings for Operators**

#### 0911: Letter Fold-in Position 2: 1 sheet Fold

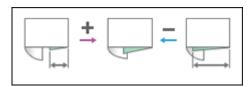
Adjust the folding position on the rear end side when Inside 3 Folding is done by the Paper Folding Unit. It applies when Single Folding is selected.



| Setting Items                       | Default<br>Value | Max.<br>Value | Min.<br>Value | Step | Unit |
|-------------------------------------|------------------|---------------|---------------|------|------|
| A3₽                                 | 0.0              | 4.0           | -4.0          | 0.2  | mm   |
| B4 JIS□                             |                  |               |               |      |      |
| A4D                                 |                  |               |               |      |      |
| B5 JIS□                             |                  |               |               |      |      |
| 12 × 18□                            |                  |               |               |      |      |
| 11 × 17 🗗                           |                  |               |               |      |      |
| $8^{1}/_{2} \times 14D$             |                  |               |               |      |      |
| 8 <sup>1</sup> / <sub>2</sub> × 11□ |                  |               |               |      |      |
| 8KD                                 |                  |               |               |      |      |
| Other Paper Sizes                   |                  |               |               |      |      |

#### 0912: Letter Fold-in Position 2: Multi-sheet Fold

Adjust the folding position on the rear end side when Inside 3 Folding is done by the Paper Folding Unit. It applies when Overlap Folding is selected.

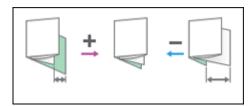


| Setting Items                        | Default<br>Value | Max.<br>Value | Min.<br>Value | Step | Unit |
|--------------------------------------|------------------|---------------|---------------|------|------|
| A3D                                  | 0.0              | 4.0           | -4.0          | 0.2  | mm   |
| B4 JIS□                              |                  |               |               |      |      |
| A4D                                  |                  |               |               |      |      |
| B5 JIS□                              |                  |               |               |      |      |
| 12 × 18□                             |                  |               |               |      |      |
| 11 × 17🗗                             |                  |               |               |      |      |
| $8^{1}/_{2} \times 14 \square$       |                  |               |               |      |      |
| 8 <sup>1</sup> / <sub>2</sub> × 11 D |                  |               |               |      |      |
| 8KD                                  |                  |               |               |      |      |
| Other Paper Sizes                    |                  |               |               |      |      |

# **Adjustment Settings for Operators**

#### 0913: Double Parallel Fold Position 1

Adjust the first folding position when Parallel Folding is done by the Paper Folding Unit



| Setting Items                       | Default<br>Value | Max.<br>Value | Min.<br>Value | Step | Unit |
|-------------------------------------|------------------|---------------|---------------|------|------|
| A3D                                 | 0.0              | 4.0           | -4.0          | 0.2  | mm   |
| B4 JIS□                             |                  |               |               |      |      |
| A4D                                 |                  |               |               |      |      |
| B5 JIS□                             |                  |               |               |      |      |
| 12 × 18□                            |                  |               |               |      |      |
| 11 × 17 🗗                           |                  |               |               |      |      |
| $8^{1}/_{2} \times 14 \square$      |                  |               |               |      |      |
| 8 <sup>1</sup> / <sub>2</sub> × 11□ |                  |               |               |      |      |
| 8KD                                 |                  |               |               |      |      |
| Other Paper Sizes                   |                  |               |               |      |      |

#### 0914: Double Parallel Fold Position 2

Adjust the second folding position when Parallel Folding is done by the Paper Folding Unit.

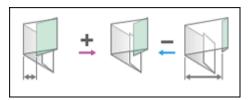


| Setting Items                       | Default<br>Value | Max.<br>Value | Min.<br>Value | Step | Unit |
|-------------------------------------|------------------|---------------|---------------|------|------|
| A3D                                 | 0.0              | 4.0           | -4.0          | 0.2  | mm   |
| B4 JIS□                             |                  |               |               |      |      |
| A4D                                 |                  |               |               |      |      |
| B5 JIS□                             |                  |               |               |      |      |
| 12 × 18□                            |                  |               |               |      |      |
| 11 × 17 🗗                           |                  |               |               |      |      |
| 8 <sup>1</sup> / <sub>2</sub> × 14□ |                  |               |               |      |      |
| 8 <sup>1</sup> / <sub>2</sub> × 11□ |                  |               |               |      |      |
| 8K <b>□</b>                         |                  |               |               |      |      |
| Other Paper Sizes                   |                  |               |               |      |      |

# **Adjustment Settings for Operators**

#### 0915: Gate Fold Position 1

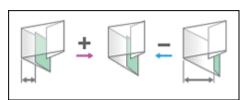
Adjust the folding position on the front end side when Gate Folding is done by the Paper Folding Unit.



| Setting Items                       | Default<br>Value | Max.<br>Value | Min.<br>Value | Step | Unit |
|-------------------------------------|------------------|---------------|---------------|------|------|
| A3₽                                 | 0.0              | 4.0           | -4.0          | 0.2  | mm   |
| B4 JIS□                             |                  |               |               |      |      |
| A4D                                 |                  |               |               |      |      |
| B5 JIS□                             |                  |               |               |      |      |
| 11 × 17 🗗                           |                  |               |               |      |      |
| $8^{1}/_{2} \times 14D$             |                  |               |               |      |      |
| 8 <sup>1</sup> / <sub>2</sub> × 11□ |                  |               |               |      |      |
| 8KD                                 |                  |               |               |      |      |
| Other Paper Sizes                   |                  |               |               |      |      |

#### 0916: Gate Fold Position 2

Adjust the folding position on the rear end side when Gate Folding is done by the Paper Folding Unit.

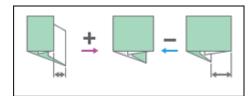


| Setting Items                       | Default<br>Value | Max.<br>Value | Min.<br>Value | Step | Unit |
|-------------------------------------|------------------|---------------|---------------|------|------|
| A3D                                 | 0.0              | 4.0           | -4.0          | 0.2  | mm   |
| B4 JIS□                             |                  |               |               |      |      |
| A4D                                 |                  |               |               |      |      |
| B5 JIS□                             |                  |               |               |      |      |
| 11 × 17 🗗                           |                  |               |               |      |      |
| $8^{1}/_{2} \times 14 \square$      |                  |               |               |      | _    |
| 8 <sup>1</sup> / <sub>2</sub> × 11□ |                  |               |               |      |      |
| 8K <b>□</b>                         |                  |               |               |      |      |
| Other Paper Sizes                   |                  |               |               |      |      |

### **Adjustment Settings for Operators**

#### 0917: Gate Fold Position 3

Adjust the center folding position when Gate Folding is done by the Paper Folding Unit.



| Setting Items                       | Default<br>Value | Max.<br>Value | Min.<br>Value | Step | Unit |
|-------------------------------------|------------------|---------------|---------------|------|------|
| A3D                                 | 0.0              | 4.0           | -4.0          | 0.2  | mm   |
| B4 JIS□                             |                  |               |               |      |      |
| A4D                                 |                  |               |               |      |      |
| B5 JIS□                             |                  |               |               |      |      |
| 12 × 18□                            |                  |               |               |      |      |
| 11 × 17 🗗                           |                  |               |               |      |      |
| $8^{1}/_{2} \times 14\Box$          |                  |               |               |      |      |
| 8 <sup>1</sup> / <sub>2</sub> × 11□ |                  |               |               |      |      |
| 8K□                                 |                  |               |               |      |      |
| Other Paper Sizes                   |                  |               |               |      |      |

### 10: Finishing: Stacker

#### 1004: Maximum Stack Quantity in Stacker Tray

Specify the maximum number of sheets that can be stacked on the stacker tray. If the unit detects that the

number of sheets reaches the set upper limit, a warning message will appear.

The maximum number of sheets you can set differs depending on the size, thickness, and paper curl. Set

the maximum number by specifying a ratio based on the number of sheets. Select [Large Size] when using paper whose vertical and horizontal lengths are 210 mm or longer whose area is  $81/2 \times 11$  or wider. Select [Small Size] when using other size paper.

Major paper sizes that apply to each item are as follows:

- Large Size: A3 or larger (up to 13  $\times$  191/5 ), B4 JIS , A4 , 11  $\times$  17 , 81/2  $\times$  14 , 81/2  $\times$  11
- Small Size: B5 JIS , A5 , 51/2 × 81/2

# **Adjustment Settings for Operators**

| Setting Items | Selections | Default Value |
|---------------|------------|---------------|
| Large Size    | 100%       | 100%          |
|               | 75%        |               |
|               | 50%        |               |
|               | 25%        |               |
| Small Size    | 100%       | 50%           |
|               | 75%        |               |
|               | 50%        |               |
|               | 25%        |               |

### 21: Finishing: Interposer

#### 2102: Interposer: Fan Setting

Specify the fan operation of Twin interposer.

When it is [On], air is blown to the edge of sheets to separate them in close contact.

| Setting Item          | Values |
|-----------------------|--------|
| Interposer Upper Tray | Auto   |
| Interposer Lower Tray | On     |
|                       | Off    |

#### 2103: Interposer: Fan Level

Adjust the fan volume for the Twin interposer to separate sheets of paper in close contact.

Press [+] or [-] to increase or decrease the air flow.

| Setting Item          | Max. Value | Min. Value | Step | Unit |
|-----------------------|------------|------------|------|------|
| Interposer Upper Tray | 90         | 0          | 10   | %    |
| Interposer Lower Tray |            |            |      |      |

