

## B234/B235/B236 Product Support Guide

|                           |                |
|---------------------------|----------------|
| <b>Launch Date:</b>       | 5/2006         |
| <b>S/N Configuration:</b> | L55/L56/L57    |
| <b>Product Code:</b>      | B234/B235/B236 |

| Product Code   | Gestetner        | Lanier          | Ricoh                      | Savin          |
|----------------|------------------|-----------------|----------------------------|----------------|
| B234/B235/B236 | DSm790/7110/7135 | LD190/1110/1135 | Aficio<br>MP9000/1100/1350 | 8090/8110/8135 |

### Training Information:

[Self-Pace CD-ROM or Ricoh University eLearning for certified B070/B071 technicians.](#)

Program is designed to provide detailed information about the differences between the B070/B071 Series and the new B234/B235/B236 Series. The program is available in two versions - Self-Pace CD-ROM and via Ricoh University Custom eLearning.

[5-day Instructor led-training course B236 \(135 cpm\) for non-certified B070/B071 technicians.](#)

Course provides hands on access to the new product series and its accessories, enabling experienced technicians to become familiar with required maintenance, troubleshooting, and repair procedures.

### Training Prerequisites:

Technicians must have prior B070/B071 high volume product training and certification to be eligible to attempt the B234/B235/B236 Self-Pace Update Training Program and its eTest certification exam. Service Professionals should also have CompTIA A+ certification or practical experience with PC operation, especially in the areas of installing drivers and application software.

Technicians who are not currently certified on the B070/B071 can be certified on the B234/B235/B236, B070/B071, and A294/A295 Series by attending the five-day Segment 5-6 Service Training Course.

### Documentation:

| Description                          | EDP Code  |
|--------------------------------------|-----------|
| B234/B235/B236 Self-Pace CBT Program | 002670MIU |
| B234/B235/B236 Service Manual        | 002671MIU |
| B234/B235/B236 Parts Catalog         | 002672MIU |

If you have any questions regarding this or any other training, please contact the Service Education and Development Division at (973) 882-5797.

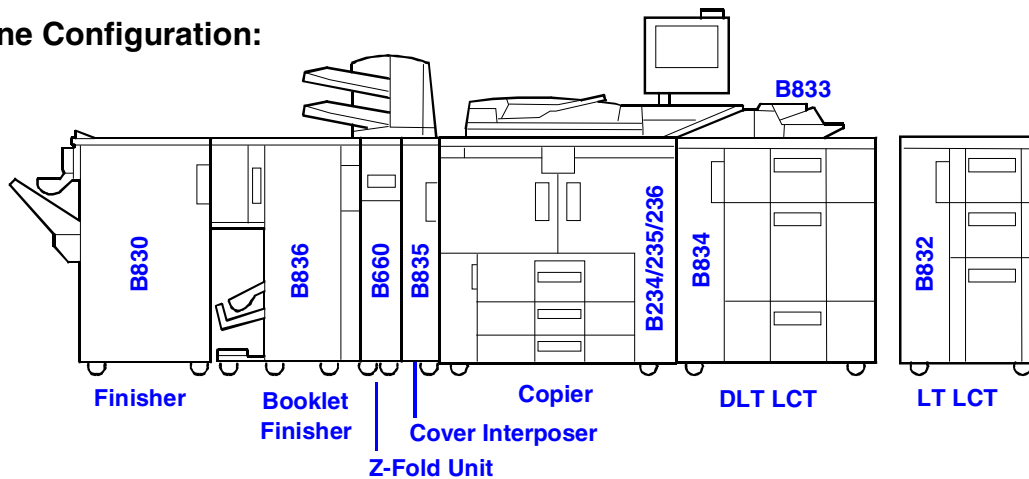
### Product Concept:

The B234/B235/B236 series is a new standard in the light production environment, with greater durability, higher productivity and full color scanning. The models B234, B235 and B236 provide 90, 110 and 135 ppm. The new series is based on the existing B070 and B071 series engine, but almost 70% of the parts are of a new design. The new design will produce greater durability and reliability and will have many new features. In addition more versatile peripherals are available, such as the 11 x 17" LCT, the Saddle Stitch Finisher, 3000 Sheet Finisher, Z-Fold Unit, and Dual Cover Interposer.



## B234/B235/B236 Product Support Guide

### Machine Configuration:



| Item                                | Product Code | Comments  |
|-------------------------------------|--------------|---|
| 90 MFP Copier                       | B234         | 90 cpm copier   |
| 110 MFP Copier                      | B235         | 110 cpm copier  |
| 135 MFP Copier                      | B236         | 135 cpm copier  |
| 11" x 17" Tray Kit TK5000           | B331         | Replaces 1st Tray (tandem tray)   |
| Z-Folding Unit ZF4000               | B660         | Z-Folds large sheets  |
| LT Large Capacity Tray RT5000       | B832         | LT LCT  |
| DLT Large Capacity Tray RT5010      | B834         | 11 x 17 LCT   |
| Multi Bypass Tray BY5000            | B833         | Alternate paper feed source   |
| Finisher SR5000                     | B830         | Corner stapling, edge stapling  |
| Punch Unit PU5000                   | B831         | For SR5000 Finisher, installed on the B234 & B235 models only. This punch option is not compatible with the B236. |
| Booklet Finisher BK5000             | B836         | Saddle Stitch Booklet maker<br>Must have SR5000   |
| Cover Inserter CI5000               | B835         | Inserts cover sheets (2 trays)  |
| Printer/Scanner Unit Type 1350      | B840         | Only one these USB Options can be installed   |
| USB Host Interface Type A           | B825         |   |
| Bluetooth Interface Unit Type 3245  | B826         | Only one of these Interface options can be installed  |
| IEEE 1284 Interface Board Type A    | B679         |   |
| IEEE 1394 Interface Board Type B    | B581         |   |
| IEEE 802.11b Interface Unit Type H  | G813         |   |
| Copy Connector Kit Type 3260        | B328         |   |
| PostScript3 Unit Type 1350          | B613         |   |
| Gigabit Ethernet Type 7300          | G381         |   |
| Copy Guard Security Unit Type E     | B829         |   |
| File Format Converter Type C        | B609         |   |
| Data Overwrite Security Unit Type F | B735         |   |
| VM Card Type C                      | B861         |   |

## B234/B235/B236 Product Support Guide

### Specifications B234/B235/B236:

|                                    |   |
|------------------------------------|---|
| <b>Configuration</b>               | Console   |
| <b>Original scanning</b>           | One-dimensional solid scanning system through CCD   |
| <b>Copy process</b>                | Dry electrostatic transfer system   |
| <b>Development</b>                 | Dry two-component magnetic brush development system   |
| <b>Fusing</b>                      | Heating roll pressure system  |
| <b>Resolution</b>                  | Scanning: 600 dpi<br>Printing: 1200 dpi   |
| <b>Grayscale (per dot)</b>         | Scanning: 256 levels, 8-bit<br>Printing: 32 bits/dot, 1-bit   |
| <b>Exposure glass</b>              | Stationary original exposure type   |
| <b>Original reference Position</b> | Rear left corner (for platen mode, ADF mode)  |
| <b>Warm-up time</b>                | Less than 360 s from Off mode at 23 C (73.4 F)  |
| <b>Originals</b>                   | Sheet/Book/Objects  |
| <b>Original size</b>               | Max: A3, 11" x 17"<br>Min: A5, 5½" x 8½" (with ADF)   |
| <b>Copy paper size</b>             | Tray 1 (Tandem): 8½" x 11" LEF, A4 LEF<br>Tray 2, Tray 3: 5½" x 8½" to 11" x 17", 13" x 18" A5 to A3<br>Duplex Tray: A5 to A3, 5½" x 8½" to 11" x 17", 12" x 18"  |
| <b>Copy paper weight</b>           | Tray 1 ~ 3: 52 to 216 g/m2<br>Tray 4 ~ 5 (B832): Bond: 16 to 40 lb.<br>Tray 4, 6 (B834): Cover: 50 to 80 lb.<br>Tray 7 (Bypass): Index: 90 to 110 lb.<br>Tray 6 (B832): 52 to 163 g/m2<br>Bond: 16 to 40 lb.<br>Cover: 50 to 60 lb.<br>Index: 90 lb.<br>Tray 5 (B834): 52 to 300 g/m2<br>Bond: 16 to 40 lb.<br>Cover: 50 to 60 lb.<br>Index: 90 lb.<br>Duplex Tray (Possible Weight): 52 to 216 g/m2<br>Bond: 14 to 58 lb.<br>Cover: 19 to 80 lb.<br>Index: 29 to 110 lb. |
| <b>Non-reproduction area</b>       | <b>Leading edge:</b> More than 4 ± 2 mm<br><b>Trailing edge:</b> More than 2 ± 2/-1.7 mm<br><b>Left edge:</b> More than 2 ± 1.5 mm<br><b>Right edge:</b> More than 2 ± 1.5 mm   |

## B234/B235/B236 Product Support Guide

**First copy time** Copy Tray 1, A4, 8½" x 11" LEF

|           | B234 (90 cpm) | B235 (110 cpm) | B236 (135 cpm) |
|-----------|---------------|----------------|----------------|
| Face-up   | < 3.5 sec     | < 3.2 sec      | < 3.0 sec      |
| Face-down | < 5.0 sec     | < 4.5 sec      | < 4.0 sec      |

**Copy Speed per paper size**

| Paper Size         | CPM           |                |                |
|--------------------|---------------|----------------|----------------|
|                    | B234 (90 cpm) | B236 (110 cpm) | B236 (135 cpm) |
| 5½ x 8½ LEF        | 90            | 110            | 135            |
| 5½ x 8½ SEF        | 90            | 110            | 135            |
| <b>8½ x 11 LEF</b> | <b>90</b>     | <b>110</b>     | <b>135</b>     |
| 8½ x 11 SEF        | 70            | 84             | 103            |
| 8½ x 14 SEF        | 60            | 71             | 87             |
| 11 x 17 SEF        | 45            | 55             | 68             |

**Reproduction ratio** 7 reduction and 5 enlargement  
**Zoom** 25 ~ 400% (allows manual adjustment in 1% steps vertically, horizontally)

**Image Density** Automatic, Manual (9 notches)

**Multiple Copies** 1 – 9999 copies

**Copy Paper Capacity (Sheets)**

| Unit           | Total Sheets | Trays  |
|----------------|--------------|--|
| Copier         | <b>3,000</b> | Tray 1: (Tandem) <b>1000</b> x 2<br>Tray 2: <b>500</b><br>Tray 3: <b>500</b> |
| LT LCT (B832)  | <b>4,550</b> | Tray 4: <b>1,000</b><br>Tray 5: <b>1,000</b><br>Tray 6: <b>2,550</b>         |
| DLT LCT (B834) | <b>4,000</b> | Tray 4: <b>1,000</b><br>Tray 5: <b>2,000</b><br>Tray 6: <b>1,000</b>         |
| Bypass         | <b>500</b>   | Tray 7: <b>500</b> (Optional Bypass Tray B833)                               |

*Paper tray capacities based on 20lb. Bond paper*

**Memory Capacity** RAM: 256 MB (128 x 2) Standard  
256 MB (Optional, Required for Scanner/Printer Option)

HDD: 320 GB (160 GB x2), approximately 1,735 copies

**Toner Replenishment** Bottle exchange (1,650 g/cartridge)

## B234/B235/B236 Product Support Guide

- Toner Yield** 60 K copies, (A4 LEF, 6% chart)  
 B234 (90 cpm) 1 to 25 Repeat Copying,  
 B235 (110 cpm), 1 to 50 Repeat Copying  
 B236 (135 cpm), 1 to 100 Repeat Copying)
- Power Source** 208 to 240 V, 60 Hz, 20 A
- Weight** Less than 299 kg (660 lbs) including ADF, and no options
- Noise Emission**

| B234 (90 cpm)  |                   | Sound Power Level dB (A) | Sound Pressure Level dB (A) |
|----------------|-------------------|--------------------------|-----------------------------|
| Mainframe      | Stand-by          | < 60                     | -                           |
|                | Copying           | < 74                     | -                           |
|                | Operator position | -                        | < 68                        |
|                | Passers-by        | -                        | < 68                        |
| Full System    | Stand-by          | < 64                     | -                           |
|                | Copying           | < 78                     | -                           |
| B235 (110 cpm) |                   | Sound Power Level dB (A) | Sound Pressure Level dB (A) |
| Mainframe      | Stand-by          | < 66                     | -                           |
|                | Copying           | < 76                     | -                           |
|                | Operator position | -                        | < 70                        |
|                | Passers-by        | -                        | < 70                        |
| Full System    | Stand-by          | < 70                     | -                           |
|                | Copying           | < 80                     | -                           |
| B236 (135 cpm) |                   | Sound Power Level dB (A) | Sound Pressure Level dB (A) |
| Mainframe      | Stand-by          | < 74                     | -                           |
|                | Copying           | < 79                     | -                           |
|                | Operator position | -                        | < 73                        |
|                | Passers-by        | -                        | < 73                        |
| Full System    | Stand-by          | < 78                     | -                           |
|                | Copying           | < 83                     | -                           |

### Power Consumption

| Mode     | Mainframe Only |        |        | Full System* |        |        |
|----------|----------------|--------|--------|--------------|--------|--------|
|          | B234           | B235   | B236   | B234         | B235   | B236   |
| Warm-up  | 2210 W         | 2190 W | 2240 W | 2290 W       | 2250 W | 2310 W |
| Stand-by | 367 W          | 403 W  | 431 W  | 420 W        | 457 W  | 479 W  |
| Copying  | 1680 W         | 1890 W | 2160 W | 1830 W       | 2110 W | 2340 W |
| Maximum  | 2940 W         | 2960 W | 3730 W | 3060 W       | 3080 W | 3850 W |

\* Full System Mainframe + ADF + LCT B834 or B832 + Multi-Bypass Tray B833 + Cover Interposer Tray B835 + Z-Fold Unit B660 + Booklet Finisher B836 + 3000-Sheet Finisher B830

## B234/B235/B236 Product Support Guide

### Energy Star

|                         | B234 (90 cpm) |       | B235 (110 cpm) |       | B236 (135 cpm) |       |
|-------------------------|---------------|-------|----------------|-------|----------------|-------|
|                         | Basic         | MFP   | Basic          | MFP   | Basic          | MFP   |
| <b>Low Power Mode</b>   |               |       |                |       |                |       |
| Power Consumption (W)   | 113.8         | 119.7 | 129.4          | 132.4 | 121.2          | 127.1 |
| Default Interval (Min.) | 15            | 15    | 15             | 15    | 15             | 15    |
| Recovery Time (Sec.)    | 32            | 29    | 29             | 30    | 66             | 65.8  |
| <b>Off Mode</b>         |               |       |                |       |                |       |
| Power Consumption (W)   | 4.2           | ---   | 4.2            | ---   | 4.2            | ---   |
| Default Interval (Min.) | 90            | ---   | 120            | ---   | 120            | ---   |
| <b>Sleep Mode</b>       |               |       |                |       |                |       |
| Power Consumption (W)   | ---           | 35.5  | ---            | 35    | ---            | 35.9  |
| Default Interval (Min.) | ---           | 90    | ---            | 120   | ---            | 120   |

### Document Server Specifications:

#### HDD (Document Server)

45 GB

#### Capacity

- Copy: Approx. 3,000 sheets (ITUT-No.4 chart)
- Batch mode: Approx. 3,000 sheets (ITUT-No.4 chart)
- Printer: Approx. 15,000 sheets (600 dpi)
- Scanner: Approx. 3,000 sheets (200 dpi/Text) (ITUT-No.4 chart) \*1

#### Maximum number of stored documents

3,000 sheets

#### Maximum pages of stored documents

15,000 sheets

#### Maximum number of pages per document

2,000 pages

#### Capacity (Memory Sorting)

6.75 GB (A4/8½" × 11": Approx. 333 sheets-3000 sheets at maximum) \*2

#### Capacity (Others)

10.0 GB

*\*1 Scanning Condition: ITUT-No.4 chart/200 dpi/Text/A4/MMR*

*\*2 The capacity will change when multiple functions are used.*

## B234/B235/B236 Product Support Guide

### ADF

|                             |   |                               |              |
|-----------------------------|---|-------------------------------|--------------|
| Original Size:              | Normal Original Mode:                                 | A3 to B5, 11" x 17"           | to 5½" x 8½" |
|                             | Thin Original Mode                                    | A3 to B5, 11" x 17"           | to 5½" x 8½" |
|                             | Duplex Original Mode:                                 | A3 to B5, 11" x 17"           | to 5½" x 8½" |
| Original Weight:            | Normal Original Mode:                                 | 52 ~ 128 g/m2 <b>(Note 1)</b> |              |
|                             | Thin Original Mode                                    | 40 ~ 128 g/m2 <b>(Note 1)</b> |              |
|                             | Duplex Original Mode:                                 | 52 ~ 105 g/m2 <b>(Note 2)</b> |              |
| Table Capacity:             | 100 sheets (80 g/m2, 20 lb)                           |                               |              |
| Original Feeding Speed:     | 80 cpm (A4/8½" x 11" LEF, 1 to 1)                     |                               |              |
| Original Standard Position: | Rear left corner (Face-up)                            |                               |              |
| Separation:                 | FRR   |                               |              |
| Original Transport:         | One flat belt   |                               |              |
| Original Feed Order:        | From the top original                                 |                               |              |
| Power Source:               | DC24V ± 10%, DC38V ± 10%, DC5V ± 5% (from the copier) |                               |              |
| Power Consumption:          | Less than 130 W                                       |                               |              |
| Dimensions (W x D x H):     | 680 x 560 x 150 mm (26.8" x 22" x 5.9")               |                               |              |
| Weight                      | Less than 17.5 kg (38.5 lb.)                          |                               |              |

**Note 1:** 156 g/m2 possible, but not guaranteed.

**Note 2:** 128 g/m2 possible, but not guaranteed.

### Accessory Specifications:

#### 11 x 17 Tray Kit TK5000 (B331)

|                           |  |
|---------------------------|--|
| Paper Size                | A3 SEF, B4 SEF, 11"x17" SEF, 8½"x14" SEF, A4 SEF, A4 LEF, 8½"x11" SEF, 11"x 8½" LEF, 305 mm x 439 mm |
| Paper Weight              | 52 ~ 163 g/m2  |
| Tray Capacity             | 1,000 sheets   |
| Remaining Paper Detection | 5-Step: 100%, 75%, 50%, 25%, End   |

#### Z-Folding Unit ZF4000 (B660)

|                          |   |
|--------------------------|---|
| Paper Size               |   |
| No Folding (52-300 g/m2) | A3, A4, A5, A6 SEF, B4, B5, B6 SEF 11" x 17", 8½"x14", 8½"x11" SEF, 5½"x 8½", 12" x 18" |
| Folding (64-80 g/m2)     | A3, B4, A4 SEF 11" x 17", 8½"x14", 8½"x11" SEF, 12" x 18"                               |
| Dimensions (w x d x h)   | 177 x 620 x 960 mm 7 x 24.5 x 37.8 in.  |
| Weight                   | Less than 55 kg (121 lb.)   |
| Power Consumption        | 100W max.   |
| Power Supply             | 120 V, 60 Hz, 1A  |

## B234/B235/B236 Product Support Guide

### Printer/Scanner Unit Type 1350 (B840)

|  |   |   |         |         |
|--|---|---|---------|---------|
| <b>CPU</b>   | Intel Celeron LV 866 MHz  |   |         |         |
| <b>Memory</b>  | Standard: 512MB (with additional 256MB option)  |   |         |         |
| <b>Hard Disk Drive</b>   | Standard: 320GB (160GB x 2) RAID  |   |         |         |
| <b>Continuous Print Speed</b>                                      | Maximum   | B234  | B235    | B236    |
|  |   | 90-ppm  | 110-ppm | 135-ppm |
| <b>Print Resolution</b>  | 1200 x 1200 dpi, 600 x 600 dpi, 300 x 300 dpi, 200 x 200 dpi  |   |         |         |
| <b>Fonts</b>   | Standard  | <b>PCL 6/5e:</b><br>Monotype Imaging 35 Intellifonts,<br>10 TrueType fonts,<br>13 International fonts,<br>1 Bitmap font |         |         |
| <b>Post Script 3</b>   | Optional  | 136 fonts (Type 2:24, Type 14:112)  |         |         |
| <b>Connectivity</b>  |   |   |         |         |
| <b>Host Interface</b>  | <b>Standard:</b><br>Ethernet interface (100BASE-TX / 10BASE-T)<br>USB 2.0 interface Option:<br>IEEE 1284 parallel interface Use a standard 36-pin printer cable not longer than 3 meters (10 feet).<br>IEEE 1394 interface<br>IEEE 802.11b wireless LAN interface<br>Bluetooth interface<br>USB Host Interface<br>Gigabit Ethernet interface (1000BASE-T) |   |         |         |
| <b>Network Protocol</b>  | IPv4, IPv6, IPX/SPX, AppleTalk  |   |         |         |
| <b>Printer Language</b>  | <b>Standard:</b> PCL 6/5e, RPCS Option: PostScript 3, PDF   |   |         |         |
| <b>Network Operating Systems Supported</b>                         |   |   |         |         |
| Windows Me / 2000 / XP, Windows Server 2003, Mac OS 10.3.3or later |   |   |         |         |
| <b>Network cable</b>   | 100BASE-TX / 10BASE-T shielded twisted-pair (STP, Category/Type5) cable.  |   |         |         |
| <b>USB Interface (Standard)</b>                                    | <ul style="list-style-type: none"> <li>• Transmission spec.<br/>USB 2.0 Standard</li> <li>• Connectable Device:<br/>Devices corresponding to USB 2.0 Standard</li> </ul>  |   |         |         |



## B234/B235/B236 Product Support Guide

### LCIT RT5000 (B832)

|                            |  |  |
|----------------------------|--|--|
| Compatible Machines        | B234/B235/B236   |  |
| Speed                      | B234 (90 cpm)  | 420 ~ 555 mm/s   |
|                            | B235 (110 cpm)   | 500 ~ 720 mm/s   |
|                            | B236 (135 cpm)   | 630 ~ 985 mm/s   |
| Paper Feed System:         | FRR-CF (no air-knife separation)   |  |
| Tray Capacity:             | Tray 1, 2  | 1,000 sheets (Paper thickness: 0.11 mm)  |
|                            | Tray 3   | 2,550 sheets (Paper thickness: 0.11 mm)  |
| Paper Weight               | Tray 1, 2  | 52 to 216 g/m <sup>2</sup>   |
|                            | Tray 3   | 52 to 163 g/m <sup>2</sup>   |
| Paper Size                 | Tray 1,2,3   | A5 LEF, A5 SEF, 5½"x8½" LEF, B5 LEF, 5½ "x 8½" SEF, A4 LEF, 8½" x 11" LEF        |
| Paper Size Switching       | Tray 1, 2  | Fixed position side, end fences, adjusted for other paper sizes by the operator. |
|                            | Tray 3   | Fixed position side, end fences, adjusted by service technician.                 |
| Anti-Condensation Heater   | Available as option  |  |
| Dimensions (W x D x H)     | 540 x 730 x 980 mm (21.3 x 28.7 x 38.6 in.)  |  |
| Weight                     | Less than 88 kg (193.6 lb.)  |  |
| Power Source               | DC 24 V ±10% (from copier)   |  |
| Power Consumption:         | Less than 132 W  |  |
| I/F                        | Serial   |  |
| Tab Sheet:                 | Feed possible from Tray 4 or Tray 5. Requires installation of tab sheet fence.<br><b>Note: Only A4 LEF, 8½" x 11" LEF tab sheets can be fed.</b> |  |
| Remaining Paper Detection: | 5-Step including Near-End for Trays 4, 5, 6  |  |

## B234/B235/B236 Product Support Guide

### LCIT RT5010 (B834)

|  |   |   |
|--|---|---|
| Compatible Machines                              | B234/B235/B236  |   |
| Speed  | B234 (90 cpm)   | 420~555 mm/s                            |
|  | B235 (110 cpm)  | 500~720 mm/s                            |
|  | B236 (135 cpm)  | 630~985 mm/s                            |
| Paper Feed System:                               | Tray 1, 2, 3  | FRR-CF                                  |
| Tray Capacity:                                   | Tray 1, 3   | 1,000 sheets (Paper thickness: 0.11 mm) |
|  | Tray 2  | 2,000 sheets (Paper thickness: 0.11 mm) |
| Remaining Paper Detection (Accuracy: ±30 sheets) | 5-Step including Near-End for Trays 4, 5, 6   |   |
| Paper Weight                                     | Tray 1, 3   | 52 to 216 g/m <sup>2</sup>              |
|  | Tray 2  | 52 to 300 g/m <sup>2</sup>              |
| Paper Size                                       | Tray 1,2,3  | A5 to A3                                |
|  |   | 5½" x 8½" to 13" x 18"                  |
| Paper Size Switching                             | Side fence, end fence adjustment.   |   |
| Paper Size Detection                             | Automatic   |   |
| Anti-Condensation Heater                         | Available as option   |   |
| Dimensions (W x D x H)                           | 880 x 730 x 980 mm (33.5 x 28.7 x 38.6 in.)   |   |
| Weight   | Less than 165 kg (363 lb.)  |   |
| Power Source                                     | DC 24 V ±10% (from copier)  |   |
| Power Consumption:                               | Less than 150 W   |   |
| I/F  | Serial  |   |
| Tab Sheet:                                       | Feed possible from all trays. Requires installation of tab sheet fence.<br><b>Note: Only A4 LEF, 8½" x 11" LEF tab sheets can be fed.</b> |   |

### Punch Unit PU5000 (B831)

|                                    |  |
|------------------------------------|--|
| Punch Hole Positions               | 2/3-hole   |
| <b>Punch Paper Size</b>            |  |
| 2-Hole (NA)                        | A6 ~ A3 SEF, 11" x 17" ~ 5 ½" x 8 ½" SEF<br>A5 ~ A4 LEF, 8 ½" x 11" LEF, 5 ½" x 8 ½" LEF |
| 3-Hole (NA)                        | A3 SEF, B4 SEF, 11" x 17" SEF A4 LEF,<br>B5 LEF, 8 ½" x 11" LEF                          |
| <b>Paper Weight</b>                |  |
| 2-Hole (NA)                        | 52 g/m <sup>2</sup> ~ 163 g/m <sup>2</sup>   |
| 3-Hole (NA)                        | 52 g/m <sup>2</sup> ~ 163 g/m <sup>2</sup>   |
| <b>Punch Waste Hopper Capacity</b> |  |
| 2-Hole (NA)                        | 10K  |
| 3-Hole (NA)                        | 10K  |
| Operation Modes                    | All (Shift, Proof, Staple)   |

## B234/B235/B236 Product Support Guide

### Multi Bypass Tray BY5000 (B833)

|                           |  |                |
|---------------------------|--|----------------|
| Compatible Machines       | B234/B235/B236   |                |
| Speed                     | B234 (90 cpm)  | 420 ~ 555 mm/s |
|                           | B235 (110 cpm)   | 500 ~ 720 mm/s |
|                           | B236 (135 cpm)   | 630 ~ 985 mm/s |
| Paper Feed System         | FRR-CF   |                |
| Tray Capacity             | 500 sheets (Paper thickness: 0.11 mm)                        |                |
| Paper Weight              | 52 ~ 216 g/m <sup>2</sup>                                    |                |
| Paper Size                | A5 LEF, A5 SEF to A3 SEF, HLT LEF<br>HLT SEF to 13"x18" SEF  |                |
| Paper Size Switching      | Operator adjustable side fences allow variety of paper sizes |                |
| Paper Size Detection      | Automatic (standard sizes only)                              |                |
| Anti-Condensation Heater  | No   |                |
| Remaining Paper Detection | 4-Step: Including Near-End (Accuracy ± 50)                   |                |
| Weight                    | Less than 18 kg (39.6 lb).                                   |                |
| Power Source              | 24 Vdc (from Copier), 5 Vdc (from LCT)                       |                |
| Power Consumption         | Less than 50 W   |                |
| Dimensions (W x D x H)    | 710 x 560 x 210 mm (30 x 22 x 8.3 in.)                       |                |
| Tab Sheets                | A4 LEF, 8½" x 11" LEF (requires attachment of tab fence)     |                |

### Cover Inserter CI5000 (B835)

|                        |   |          |
|------------------------|---|----------|
| Compatible Machines    | B234/235/236  |          |
| Speed                  | B234 (90 cpm)   | 432 mm/s |
|                        | B235 (110 cpm)  | 515 mm/s |
|                        | B236 (135 cpm)  | 649 mm/s |
| Paper Separation       | FRR System with Feed Belt                                   |          |
| Paper Sizes            | Width: A5 SEF/5½" x 8½" SEF ~ 13"                           |          |
|                        | Length: A5 LEF/5½" x 8½" LEF ~ 19"                          |          |
| Paper Weight           | 64 ~ 216 g/m <sup>2</sup>                                   |          |
| Capacity               | 400 sheets (80 g/m <sup>2</sup> ) (2 trays 200 sheets each) |          |
| Paper Size Detection   | Yes   |          |
| Paper Size Switching   | Operator adjustable side fences                             |          |
| Side Registration      | Yes   |          |
| Power Supply           | 24 V ± 5% (from mainframe)                                  |          |
| Power Consumption      | Less than 50 W  |          |
| Dimensions (W x D x H) | Less than 540 x 730 x 1200 mm                               |          |
|                        | 21.2" x 28.7" x 47.2"                                       |          |
| Weight                 | Less than 45 kg (99 lb.)                                    |          |

## B234/B235/B236 Product Support Guide

### Finisher SR5000 (B830)

| <b>UPPER TRAY</b>                  |   |                   |             |   |
|------------------------------------|---|-------------------|-------------|---|
| Paper Capacity (80 g/m2)           | 500 sheets (A4, 8½" x 11" and smaller)                                      |                   |             |   |
|                                    | 250 sheets (B4, 8½" x 14" and larger)                                       |                   |             |   |
| Paper Size                         | A3 to A6 SEF, B6 SE, 11" x 17" to 5½" x 8½", 12" x 18", 13" x 19"           |                   |             |   |
| Paper Weight                       | 52 to 216 g/m2  |                   |             |   |
| Upper Tray Full Detection          | Provided  |                   |             |   |
| <b>SHIFT TRAY</b>                  |   |                   |             |   |
| Paper Capacity (80 g/m2)           | 3000 sheets (A4 LEF, B5 LEF, 8½" x 11" LEF)                                 |                   |             |   |
|                                    | 1500 sheets (A3, A4 SEF, B4 and B5 SEF, 11" x 17" SEF, 8½" x 14", 8½" x 11" |                   |             |   |
|                                    | 1000 sheets 12" x 18"   |                   |             |   |
|                                    | 500 sheets (A5 LEF, 5½" x 8½" LEF)  |                   |             |   |
|                                    | 100 sheets (A5 SEF, 5½" x 8½" SEF)  |                   |             |   |
| Paper Size                         | A3 to A5, 11" x 17" to 5½" x 8½", 12" x 18" (including tab paper)           |                   |             |   |
| Paper Weight                       | 52 to 300 g/m2  |                   |             |   |
| Shift Tray Full Detection          | Provided  |                   |             |   |
| <b>STAPLER</b>                     |   |                   |             |   |
| Stapling Stack Size                | A4, B5, 8½" x 11" (Max. 100 Sheets)   |                   |             |   |
|                                    | A3, B4, 11" x 17", 8½" x 14" (Max. 50 sheets)                               |                   |             |   |
| Stapling Paper Size                | A3 to B5, 11" x 17" to 8½" x 11"  |                   |             |   |
|                                    | Z fold paper  | A3, B4, 11" x 17" |             |   |
| Stapling Paper Weight              |   |                   |             |   |
|                                    | Z fold paper  | 64 to 80 g/m2     |             |   |
| Staple Position                    | 4 Modes   |                   |             |   |
|                                    | 1 Staple: Front, Rear, Rear-Oblique   |                   |             |   |
|                                    | 2 Staples: 2 Locations  |                   |             |   |
| Staple Capacity                    | 5000 staples/cartridge  |                   |             |   |
| Staple Supply                      | Cartridge or Staple Replacement   |                   |             |   |
| Stapled Stack Size                 | No Folding  | <b>Sheets</b>     | <b>Sets</b> | <b>Sizes</b>  |
|                                    |   | 10 ~ 100          | 200 ~ 30    | A4 SEF, B5 SEF, 8½" x 11" SEF                               |
|                                    |   | 2 ~ 9             | 150         | A4 LEF, B5 LEF, 8½" x 11" LEF                               |
|                                    |   | 10 ~ 50           | 150 ~ 30    | A3, B4, 11" x 17", 8½" x 14"                                |
|                                    | Folding   | 2~9               | 150         |   |
|                                    |   | <b>Sheets</b>     | <b>Sets</b> | <b>Sizes</b>  |
|                                    |   | 1 ~ 10            | 30 ~ 3      | A3 Z fold + A4, B4 Z fold + B5 11" X 17" Z-Fold + 8½" x 11" |
|                                    |   |                   |             |   |
| Staple Trim Waste Capacity         | 15,000 or more  |                   |             |   |
| Waste Staple Hopper Full Detection | Provided  |                   |             |   |
| Power Consumption                  | Less than 120 W   |                   |             |   |
| Power Source                       | DC 24 V (From Mainframe)  |                   |             |   |
| Size (W x D x H)                   | 800 x 730 x 980 mm<br>31.5 x 28.7 x 38.6 in.                                |                   |             |   |
| Weight                             | Less than 75 kg (165 lb).   |                   |             |   |
| Compatible Machines                | B234 (90 cpm), B235 (110 cpm), B236 (135 cpm)                               |                   |             |   |

**Note: Stapling & hole punching cannot be combined when using the GBC StreamPunch to a punch job. Stapling & punching is supported only with the PU5000 on the B234/B235 models.**

## B234/B235/B236 Product Support Guide

### Booklet Finisher BK5000 (B836)

#### General

| Booklet Staple          |  |               |             |
|-------------------------|--|---------------|-------------|
| Paper Size              | A4 SEF, A3 SEF, B5 SEF, B4 SEF                                   |               |             |
|                         | DLT SEF, DLT LEF, LG, 12" x 18"                                  |               |             |
| Paper Weight            | 64 g/m <sup>2</sup> -90 g/m <sup>2</sup> , 17 lb Bond-24 lb Bond |               |             |
| Staple Position         | Center (x2)  |               |             |
| Booklet staples         | 2,000 staples per cartridge                                      |               |             |
| Booklet Staple Capacity | All size   | <b>Sheets</b> | <b>Sets</b> |
|                         |  | 2 to 5        | 30          |
|                         |  | 6 to 10       | 15          |
|                         |  | 11 to 15      | 10          |
| Single Sheet Fold       | Yes  |               |             |
| Dimension W x D x H     | 600 x 730 x 980 mm (23.6 x 30 x 38.6")                           |               |             |
| Weight                  | Less than 70 kg  |               |             |
| Power Consumption       | Less than 100 W  |               |             |
| Configuration           | Console type attached base-unit                                  |               |             |
| Power Supply            | 24 V (from mainframe)  |               |             |

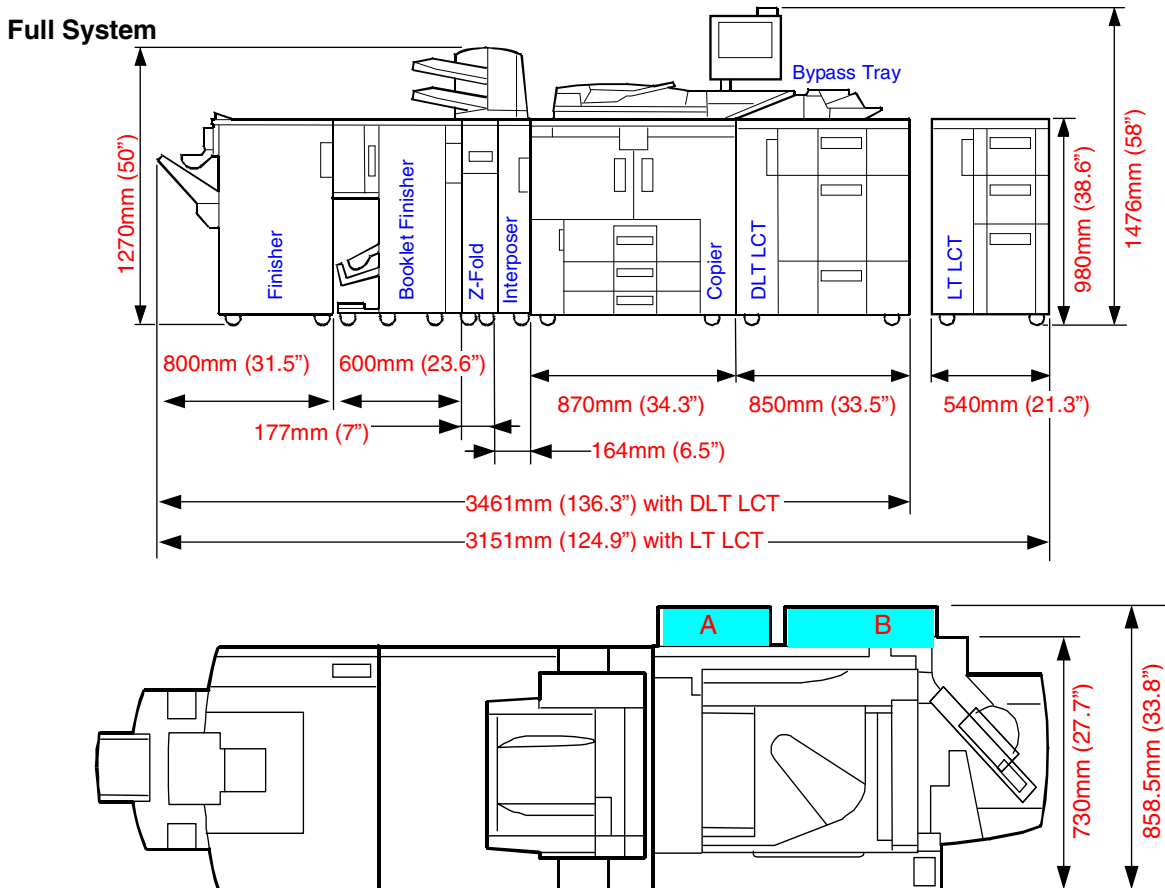
#### Booklet Staple Paper Specifications

| Paper Size    | Plain Paper |            |                | Paper Type    |                       |
|---------------|-------------|------------|----------------|---------------|-----------------------|
|               | Copier PPC  | Used Paper | Recycled Paper | Colored Paper | Translucent Blueprint |
| A3 SEF        | ●           | ✘          | ●              | ●             |                       |
| B4 SEF        | ●           |            | ●              | ●             |                       |
| A4 SEF        | ●           |            | ●              | ●             |                       |
| A4 LEF        | ●           |            | ●              | ●             |                       |
| B5 SEF        | ●           |            | ●              | ●             |                       |
| B5 LEF        | ●           |            | ●              | ●             |                       |
| A5 SEF        |             | ✘          | ✘              | ✘             | ✘                     |
| A5 LEF        |             | ✘          | ✘              | ✘             | ✘                     |
| B6 SEF        |             | ✘          | ✘              | ✘             | ✘                     |
| B6 LEF        |             | ✘          | ✘              | ✘             | ✘                     |
| 12" x 18" SEF | ●           | ✘          | ●              | ●             | ✘                     |
| 11" x 17" SEF | ●           | ✘          | ●              | ●             |                       |
| 8½" x 14"     | ●           | ✘          | ●              | ●             |                       |
| 8½" x 11" SEF | ●           | ✘          | ●              | ●             |                       |
| 8½" x 11" LEF | ●           | ✘          | ●              | ●             |                       |
| 5½" x 8½"     |             | ✘          | ✘              |               | ✘                     |
| 5½" x 8½"     |             | ✘          | ✘              |               | ✘                     |

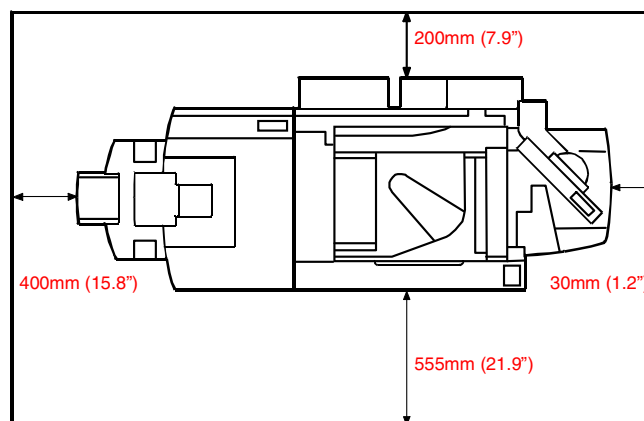
- Booklet stapling/folding, Shift, YES
- ✘ Not available

## B234/B235/B236 Product Support Guide

### System Dimensions:



### Minimum Space Requirements:



- *The controller box door [A] and PSU door [B] on the back of the machine swing open for servicing, 20 inches is required at the rear of the machine to completely swing open both doors.*
- *Both doors can be removed to allow the machine to pass through a narrow doorway.*

## B234/B235/B236 Product Support Guide

### Installation Requirements:

- **Temperature Range:** Recommended: 10°C to 32°C (50°F to 89.6°F)
- **Humidity Range:** 15% to 80% RH
- **Ambient Illumination:** Less than 1,500 lux (do not expose to direct sunlight or strong light.)
- **Ventilation:** Room air should turn over at least 3 times per hour per person
- **Ambient Dust:** Less than 0.075 mg/m<sup>3</sup>
- If the place of installation is air-conditioned or heated, do not place the machine where it will be:
  1. Subjected to sudden temperature changes
  2. Directly exposed to cool air from an air-conditioner
  3. Directly exposed to heat from a heater
- Do not place the machine where it will be exposed to corrosive gases.
- Do not install the machine at any location over 2,000 m (6,500 feet) above sea level
- Place the machine on a strong and level floor surface.
- Do not place the machine where it may be subjected to strong vibrations.
- Do not connect the machine to a power source shared with another electrical appliance.
- The machine can generate an electromagnetic field that could interfere with radio or television reception.
- **Machine Level:**
  - Front to back: Within ±5 mm (0.2") of level
  - Right to left: Within ±5 mm (0.2") of level

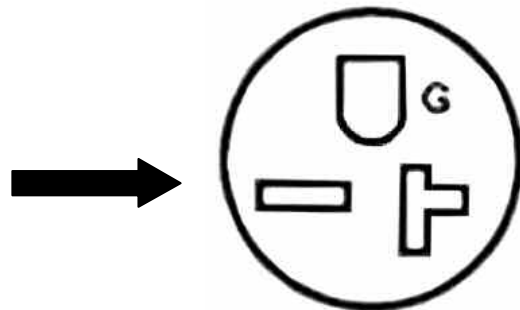
**NOTE:** The machine legs may be raised or lowered in order to level the machine. Use a carpenter's level on the exposure glass.

### Power Requirements:

**Input voltage level: 208 ~ 240V 60 Hz**

**Permissible voltage fluctuation +/-10%**

The required wall outlet is **NEMA 6-20R**.



## B234/B235/B236 Product Support Guide

### Installation Times:

| Unit                           | Time (Minutes) | Unit                                | Time (Minutes) |
|--------------------------------|----------------|-------------------------------------|----------------|
| 90/110/135 cpm Copier          | 50             | Printer/Scanner Unit Type 1350      | 5              |
| 11" x 17" Tray Kit TK5000      | 15             | PostScript3 Unit Type 1350          | 5              |
| Z-Folding Unit ZF4000          | 15             | Gigabit Ethernet Type 7300          | 5              |
| LT Large Capacity Tray RT5000  | 15             | Bluetooth Interface Unit Type 3245  | 5              |
| DLT Large Capacity Tray RT5010 | 15             | USB Host Interface Type A           | 5              |
| Multi Bypass Tray BY5000       | 15             | Copy Guard Security Unit Type E     | 5              |
| Finisher SR5000                | 15             | IEEE 802.11b Interface Unit Type H  | 5              |
| Punch Unit PU5000              | 10             | IEEE 1284 Interface Board Type A    | 5              |
| Booklet Finisher BK5000        | 15             | IEEE 1394 Interface Board Type B    | 5              |
| Cover Inserter CI5000          | 15             | File Format Converter Type C        | 5              |
| Copy Connector Kit Type 3260   | 5              | Data Overwrite Security Unit Type E | 5              |
| VM Card Type B                 | 5              |                                     |                |

### Branding:

Machines are shipped as generic models and branding is required.

#### Ricoh version machines:

The branding label (provided) must be adhered to the front cover.

#### Savin/Gestetner/Lanier:

The branding label (provided) must be adhered to the front cover and the Plug and Play name set to the appropriate company with SP 5-907.

### Target Reliability:

|                               | B234 (90 cpm)   | B235 (110 cpm) | B236 (135 cpm) |
|-------------------------------|-----------------|----------------|----------------|
| <b>Average Monthly Volume</b> | 100K/month      | 190K/month     | 300K/month     |
| <b>Max. Monthly Volume</b>    | 1,000,000/month |                |                |
| <b>PM Interval</b>            | 500K            |                |                |
| <b>Drum Yield</b>             | 2,000,000       |                |                |



## **B234/B235/B236 Product Support Guide**

### **Non-Recommended Throughput Material:**

Do not use any of the following kinds of paper or a fault might occur:

- Paper for inkjet printers
- Thermal fax paper
- Art paper
- Aluminum foil
- Carbon paper
- Conductive paper
- Paper with perforated lines
- Hemmed paper
- Envelopes

Do not copy on the side of paper that has been already copied onto, or misfeeds and or a fault might occur.

To prevent misfeeds, do not use the following kinds of paper:

- Bent, folded, or creased paper
- Perforated paper
- Slippery paper
- Torn paper
- Rough paper
- Thin paper with low stiffness
- Paper with a dusty surface

If you copy onto rough grain paper, the image might be blurred.

### **Total Counter:**

Electronic Total Counter Access:

- The counter can be displayed on the Operation Panel Screen by pressing the Counter Key on the Operation Panel. (Total Counter limit is 8 digits) The info on the screen can also be printed out by pressing the Total Counter List button displayed on the screen.
- The Technician can view the Total Counter by entering SP8999-1 in SP mode.
- The counter info on SP 8999-1 can be printed out along long with other Logging Data with SP 5990-4.

Mechanical Counter Access:

- A mechanical counter is located under the left front inner cover above the fusing unit. (Total Counter limit is 7 digits)

## B234/B235/B236 Product Support Guide

### Copier Order Codes:

| Product Code | EDP Code | Lanier ID | Item                   | Model Name   |
|--------------|----------|-----------|------------------------|--|
| B234         | 412958   | 479-1707  | 90 cpm Digital Copier  | Ricoh Aficio MP9000<br>Savin 8090<br>Gestetner DS m790<br>Lanier LD190   |
| B235         | 412961   | 479-1708  | 110 cpm Digital Copier | Ricoh Aficio MP1100<br>Savin 8110<br>Gestetner DS m7110<br>Lanier LD1110 |
| B236         | 412964   | 479-1709  | 135 cpm Digital Copier | Ricoh Aficio MP1350<br>Savin 8135<br>Gestetner DS m7135<br>Lanier LD1135 |

### Accessories / Options Order Codes:

| Product Code | EDP Code | Lanier ID | Description                 | Accessory/ Option Name              |
|--------------|----------|-----------|-----------------------------|-------------------------------------|
| B331         | 412967   | 481-7049  | A3/DLT kit                  | 11" x 17" Tray Kit TK5000           |
| B660         | 412805   | 479-1714  | Z-Folder                    | Z-Folding Unit ZF4000               |
| B832         | 412968   | 479-1710  | LT LCT                      | LT Large Capacity Tray RT5000       |
| B834         | 412971   | 479-1711  | DLT LCT                     | DLT Large Capacity Tray RT5010      |
| B833         | 412974   | 481-7050  | Bypass Tray                 | Multi Bypass Tray BY5000            |
| B830         | 412981   | 479-1712  | Finisher                    | Finisher SR5000                     |
| B831         | 412983   | 481-7052  | Punch 2/3 Hole              | Punch Unit PU5000                   |
| B836         | 412978   | 479-1713  | Saddle Stitch Booklet maker | Booklet Finisher BK5000             |
| B835         | 412976   | 481-7051  | Interposer                  | Cover Inserter CI5000               |
| B328         | 412415   | 216-7127  | Copy Connector              | Copy Connector Kit Type 3260        |
| B840         | 412987   | 481-7054  | Printer/Scanner             | Printer/Scanner Unit Type 1350      |
| B613         | 412993   | 481-7055  | PostScript Option           | PostScript3 Unit Type 1350          |
| G381         | 402378   | 481-0893  | Gigabit Ethernet            | Gigabit Ethernet Type 7300          |
| B826         | 412866   | 481-7142  | Bluetooth                   | Bluetooth Interface Unit Type 3245  |
| B825         | 412867   | 481-7057  | USB HOST                    | USB Host Interface Type A           |
| B829         | 412986   | 481-7069  | Copy Guard                  | Copy Guard Security Unit Type E     |
| G813         | 402378   | 481-0907  | Wireless LAN I/F            | IEEE 802.11b Interface Unit Type H  |
| B679         | 411699   | 481-0786  | IEEE 1284                   | IEEE 1284 Interface Board Type A    |
| B581         | 412995   | 481-0683  | EE1394                      | IEEE 1394 Interface Board Type B    |
| B609         | 412823   | 481-7053  | MLB                         | File Format Converter Type C        |
| B735         | 413107   | 481-7092  | Copy Guard                  | Data Overwrite Security Unit Type F |
| B861         | 413019   | -         | VM Card                     | VM Card Type C                      |

## B234/B235/B236 Product Support Guide

### Supply Order Numbers/Yields:

| Name/Description                                       | Ricoh  | Savin | Gestetner | Lanier ID | Target Yield    |
|--|--------|-------|-----------|-----------|-----------------|
| Toner MP 1350A (Black)                                 | 840004 |       |           |           | 60,000/btl *    |
| Toner Type 8135 (Black)                                |        | 9907  |           |           | 60,000/btl *    |
| Toner MP 1350 (Black)                                  |        |       | 89907     |           | 60,000/btl *    |
| Toner for LD190/LD1110/ LD1135 (Black)                 |        |       |           | 480-0382  | 60,000/btl *    |
| Staple Type L for BK5000 (Saddle Stitch)               | 411240 | 9885  |           |           | 2,000/cartridge |
| Staple Refill Type L for BK5000 (Saddle Stitch)        | 411241 | 9886  |           |           | 8,000/carton    |
| Staple CSC860A for BK5000 (Saddle Stitch)              |        |       | 89885     |           | 2,000/carton    |
| Staple Refill CSC860B for BK5000 (Saddle Stitch)       |        |       | 89886     |           | 8,000/carton    |
| Staple Set Cartridge Type L for BK5000 (Saddle Stitch) |        |       |           | 480-0091  | 2,000/cartridge |
| Staple Refill Type L for BK5000 (Saddle Stitch)        |        |       |           | 480-0092  | 8,000/carton    |
| Staple Type M for SR5000 (Usual Staple)                | 413013 | 9908  | 89908     | 480-0383  | 5,000/cartridge |
| Staple Refill Type M for SR5000 (Usual Staple)         | 413026 | 9909  | 89909     | 480-0390  | 25,000/carton   |

**Note:** \* A4, 6% chart is used to measure the yield.

### Drum & Developer P/N:

| Name/Description  | Ricoh    | Savin    | Gestetner | Lanier    | Target Yield |
|-------------------|----------|----------|-----------|-----------|--------------|
| Developer Type 27 | B2349640 | B2349640 | B2349640  | GB2349640 | 500K/bag     |
| Drum              | B2349510 | B2349510 | B2349510  | GB2349510 | 2,000,000    |

### Special Tools:

#### Unique or Common

U: Unique for this model  
C: Common with listed model

| Item | Part Number | Description                        | Q'ty | Unique or Common |
|------|-------------|------------------------------------|------|------------------|
| 1    | A0069104    | Scanner Positioning Pin (4pcs/set) | 1    | B070/B071        |
| 2    | A2929500    | Test Chart – S5S (10 pcs/set)      | 1    | B070/B071        |
| 3    | A0299387    | Digital Multimeter – FLUKE 87      | 1    | B070/B071        |
| 4    | A2579300    | Grease Barrierta – S552R           | 1    | B070/B071        |
| 5    | 52039502    | Silicon Grease G-501               | 1    | B070/B071        |
| 6    | B2349590    | NVRAM                              | 1    | U                |
| 7    | G0219350    | Loop Back Connector                | 1    | B070/B071        |
| 8    | B6455010    | SD Card                            | 1    | B070/B071        |
| 9    | B6456705    | PCMCIA Card Adapter                | 1    | B070/B071        |
| 10   | B6456810    | USB Reader/Writer                  | 1    | B070/B071        |
| 11   | A2949590    | Paper Dust Cleaner-5pcs/set        | 1    | B070/B071        |

## B234/B235/B236 Product Support Guide

### PM Table:

Unique/Common

U: Unique for this model  
C: Common with other model

### B234/B235/B236

| Part Number             | Description                        | Q'ty/Unit | PM Interval | Unique or Common |
|-------------------------|------------------------------------|-----------|-------------|------------------|
| <b>Fusing</b>           |                                    |           |             |                  |
| AE011108                | Hot Roller: DIA80                  | 1         | 700k        | U for B234/B235  |
| AE011110                | Hot Roller: DIA80: Type C          | 1         | 700k        | U for B236       |
| AE020159                | Pressure Roller: DIA80             | 1         | 750k        | U                |
| AE045054                | Roller: Cleaning felt: 24M:Ass'y   | 1         | 750k        | U                |
| AE040067                | Roller: Cleaning Felt: Plate       | 1         | 750k        | U                |
| AE044044                | Stripper Pawls: Ring: Ass'y        | 5         | 700k        | U                |
| B0704418                | Pad: Brake: Oil Supply Roller      | 1         | 750k        | B070/B071        |
| <b>Scanner</b>          |                                    |           |             |                  |
| B0701790                | Exposure Glass: Ass'y              | 1         | 1,000K      | B070/B071        |
| <b>Development Unit</b> |                                    |           |             |                  |
| B2343701                | Collection Bottle: Vacuum: Ass'y   | 1         | 3,000k      | U                |
| B2343094                | Air Pump: Development: Ass'y       | 1         | 2,500k      | U                |
| B0703180                | Development roller gear: 21Z       | 2         | 4,000K      | B070/B071        |
| B2343165                | Paddle roller gear: 42Z            | 1         | 4,000K      | U                |
| B2343163                | Idle gear: 23Z                     | 1         | 1,500K      | U                |
| <b>Paper Feed</b>       |                                    |           |             |                  |
| AF031080                | Paper Feed Roller: Feed            | 3         | 1,000k      | B070/B071        |
| AF030080                | Paper Feed Roller: Pickup          | 3         | 1,000k      | B070/B071        |
| AF032080                | Paper Feed Roller: Separation      | 3         | 1,000k      | B070/B071        |
| <b>Around Drum</b>      |                                    |           |             |                  |
| B2343590                | Brush Roller: Cleaning             | 1         | 550k        | U                |
| B2343637                | Filter Cleaning                    | 2         | 500k        | U                |
| B2343564                | Blade: Cleaning: Ass'y             | 1         | 550k        | U                |
| B2342128                | Wire: Charge Corona                | 1         | 500k        | U                |
| B2342113                | Grid: Charge Corona                | 1         | 500k        | U                |
| B2342123                | Cushion: Wire                      | 2         | 500k        | U                |
| A0962063                | Corona Wire Cleaner                | 1         | 500k        | B070/B071        |
| B2342158                | Filter: Around The Photoconductor  | 1         | 550k        | U                |
| B2342155                | Grid: Charge Corona: Pre           | 1         | 500k        | U                |
| B2342156                | Wire: Charge Corona: Pre           | 1         | 500k        | U                |
| AD025022                | Pickoff Pawl: Swivel               | 2         | 1,100k      | B070/B071        |
| B2343971                | Transfer Belt                      | 1         | 1,100k      | U                |
| B2343916                | Blade: Transfer Belt: No.1 2:Ass'y | 1         | 1,100k      | U                |
| B0702076                | Ozone Filter: 50x150x40            | 1         | 15,000k     | B070/B071        |

**B234/B235/B236 Product Support Guide**

**PM Table Continued...**

| Part Number               | Description                          | Q'ty/<br>Unit | PM<br>Interval | Unique or Common |                                       |
|---------------------------|--------------------------------------|---------------|----------------|------------------|---------------------------------------|
| <b>ADF</b>                |                                      |               |                |                  |                                       |
| B3011442                  | Transport Belt                       | 1             | 140k           | B070/B071        | <b>Included<br/>in ADF<br/>PM Kit</b> |
| A8592241                  | Reverse Roller: Paper Feed           | 1             | 120k           | B070/B071        |                                       |
| B4772225                  | Pickup Roller                        | 1             | 120k           | B070/B071        |                                       |
| A8061295                  | Paper Feed Belt                      | 1             | 120k           | B070/B071        |                                       |
| <b>LCT: B834</b>          |                                      |               |                |                  |                                       |
| AF031081                  | Paper Feed Roller: Feed: Manual Feed | 3             | 1,000k         | B070/B071        |                                       |
| AF030080                  | Paper Feed Roller: Pickup            | 3             | 1,000k         | B070/B071        |                                       |
| AF032080                  | Paper Feed Roller: Separation        | 3             | 1,000k         | B070/B071        |                                       |
| <b>By-pass Tray: B833</b> |                                      |               |                |                  |                                       |
| AF031081                  | Paper Feed Roller: Feed: Manual Feed | 1             | 1,000k         | B070/B071        |                                       |
| AF030080                  | Paper Feed Roller: Pickup            | 1             | 1,000k         | B070/B071        |                                       |
| AF032080                  | Paper Feed Roller: Separation        | 1             | 1,000k         | B070/B071        |                                       |

**PM Kits:**

| PM Kit        | Part Number |
|---------------|-------------|
| 500K PM Kit   | PMB234500K  |
| 700K PM Kit   | PMB234700K  |
| 1,100K PM Kit | PMB2341100K |
| ADF PM Kit    | PMB234ADFK  |

## B234/B235/B236 Product Support Guide

### Initial Recommend Service Parts:

| Part Number | Description                 | Quantity | Remarks                             |
|-------------|-----------------------------|----------|-------------------------------------|
| B2349510    | OPC Drum                    | 1        | 2M copies                           |
| AX510011    | Xenon Lamp                  | 2        | Replace as needed                   |
| B2341721    | Lens Unit                   | 1        | Replace as needed                   |
| B2341721    | PCB - CNB                   | 1        | Replace as needed                   |
| B2345112    | PCB - IC                    | 1        | Replace as needed                   |
| B2345122    | PCB - SIB                   | 1        | Replace as needed                   |
| AZ500071    | Stabilizer                  | 1        | Replace as needed                   |
| B2341910    | Laser Diode Unit            | 1        | Replace as needed                   |
| B2344090    | Fusing Thermostat: 198/199C | 1        | Replace as needed                   |
| A2294131    | Thermistor Ass'y            | 1        | Replace as needed                   |
| AX440240    | Fusing Lamp – 208V/900V     | 1        | Replace as needed                   |
| AX440242    | Fusing Lamp - 208V/900W     | 1        | Replace as needed                   |
| AX440243    | Fusing Lamp - 208V/600W     | 1        | Replace as needed<br>B236 only      |
| AX440241    | Fusing Lamp - 208V/600W     | 1        | Replace as needed<br>B234/B235 only |
| AZ230001    | Power Supply Unit 1         | 1        | Replace as needed                   |
| AZ230003    | Power Supply Unit B         | 1        | Replace as needed                   |
| B2345410    | PCB - AC Drive              | 1        | Replace as needed                   |
| B2345440    | PCB - Relay Safety Switch   | 1        | Replace as needed                   |
| B2345241    | PCB - IOB                   | 1        | Replace as needed                   |
| B2345220    | PCB - BCU                   | 1        | Replace as needed                   |
| B2345312    | PCB - OPU                   | 1        | Replace as needed                   |
| B7365660    | PCB - NIC + USB             | 1        | Replace as needed                   |
| B2345505    | PCB - Interface             | 1        | Replace as needed                   |
| B2345450    | PCB - IPU                   | 1        | Replace as needed                   |
| AZ230195    | Power Supply Unit (208V)    | 1        | Replace as needed                   |

## B234/B235/B236 Product Support Guide

### Contact Information:

| Name                                     | Contact  |
|--|--|
| Technical Services Call Center (Hotline) | Ricoh: 1-800-537-4264<br>Savin/Gestetner: 1-800-291-6044<br>Lanier: 800-333-3147   |
| Application Help Desk (Software Issues)  | Ricoh Phone Card: 2 Call - 000781MIU, 5 Call - 000900MIU<br>Savin Phone Card: 2 Call - 12992, 5 Call - 12993<br>Gestetner Phone Card: 2 Call - 12994, 5 Call - 12995   |
| National Reclamation Center              | (800) 557-4264 <a href="http://www.nrc-usa.com/">http://www.nrc-usa.com/</a>   |
| Technology Solutions Center Web Site     | <a href="http://www.tscweb.net">http://www.tscweb.net</a>  |
| Ricoh Web Site                           | <a href="http://www.ricoh-usa.com/">http://www.ricoh-usa.com/</a>  |
| Savin iLINC Web Site                     | <a href="http://w3.savin.com">http://w3.savin.com</a>  |
| Gestetner ILINE Web Site                 | <a href="http://W3.gestetnerusa.com">http://W3.gestetnerusa.com</a>  |
| Lanier Web Site                          | <a href="http://www.lanier.com">http://www.lanier.com</a>  |
| Headquarter Web Sites                    | Ricoh Corporation: <a href="http://www.ricoh-usa.com">http://www.ricoh-usa.com</a><br>Savin Corporation: <a href="http://www.savin.com">http://www.savin.com</a><br>Gestetner Corporation: <a href="http://www.gestetnerusa.com/">http://www.gestetnerusa.com/</a> |
| Material Safety Data Sheets              | 1-800-336-MSDS (6737)  |
| Ricoh University – East                  | (973) 808-7646   |
| Ricoh University – West                  | (714) 566-3692   |
| Ricoh University – South                 | (770) 840-4835   |

### Document Revisions:

- V 1.0 - Original
- V 1.1 - Lanier Model name incorrectly listed for B236. Page 18.
- V 1.2 - Corrected Duplex Paper Weight. Page 3
  - Added Copy Speed per paper size Page 4
  - Added GBC Punch Note. Page 12
  - Added Single Sheet Fold spec. Page 13
  - Added PSU & Controller Door swing open spec. Page 14
  - Corrected Ricoh Toner Description Page 19
  - Added PM Kit P/N info. Pages 20 & 21
  - Added VM Card info pages 2, 16 & 18