COVER INTERPOSER TRAY
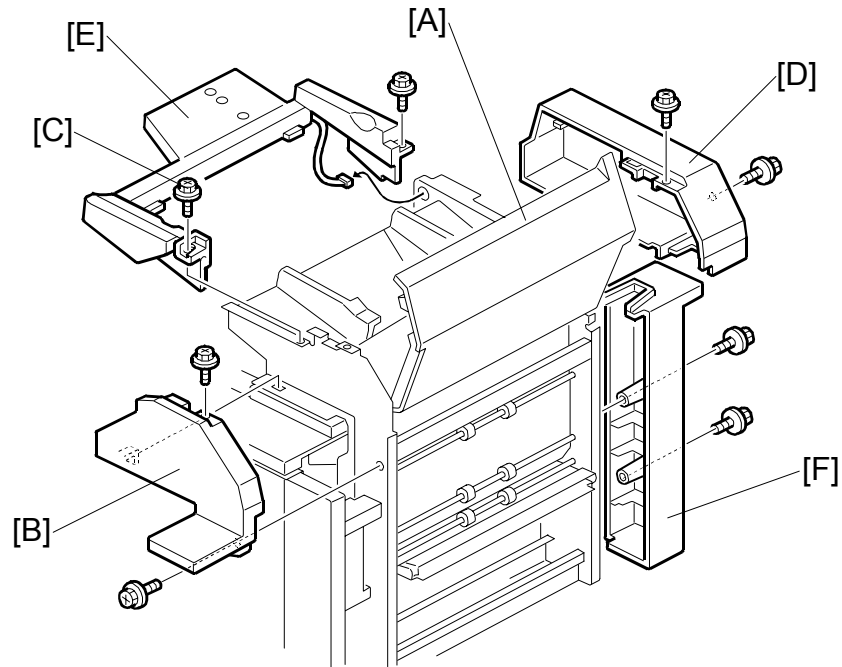## (Machine Code: B470/B704)

1. REPLACEMENT AND ADJUSTMENT

1.1 EXTERNAL COVERS

B470R001.WMF

[A]: Open the feed cover.
[B]: Upper front cover (✎ x 2)
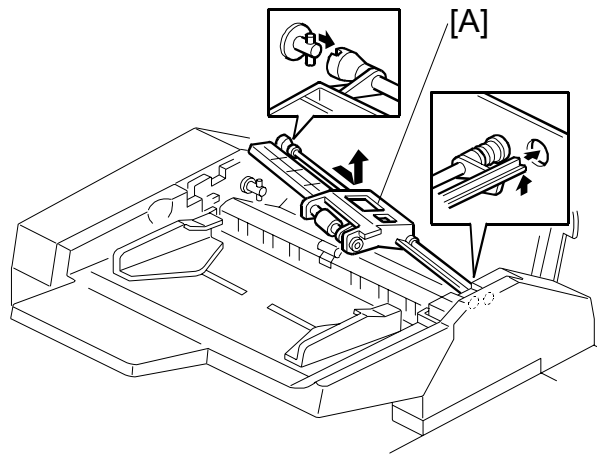   **NOTE:** To remove the upper front cover, screw [C] must be removed.
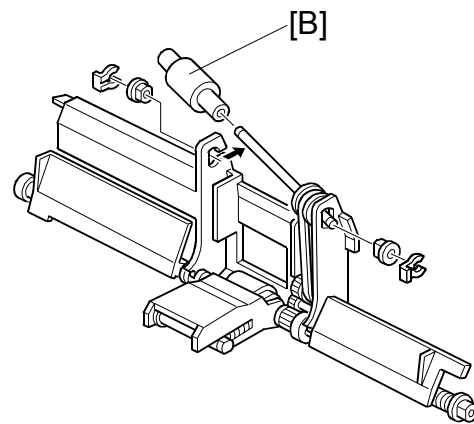[D]: Rear upper cover (✎ x 2)
[E]: Slip sheet tray (✎ x 2, ▤ x 1)
[F]: Rear middle cover (✎ x 2)

Peripherals

1.2 FEED UNIT AND PICK-UP ROLLER
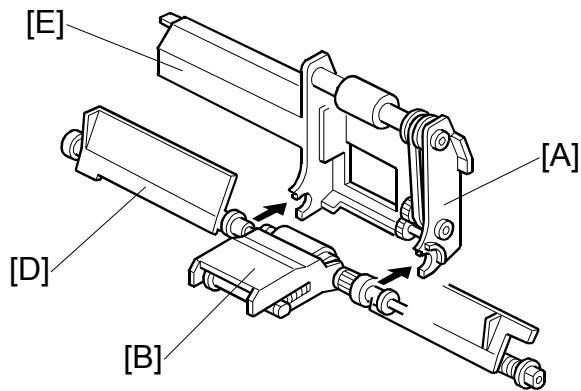
[A]

B470R002.WMF

[B]

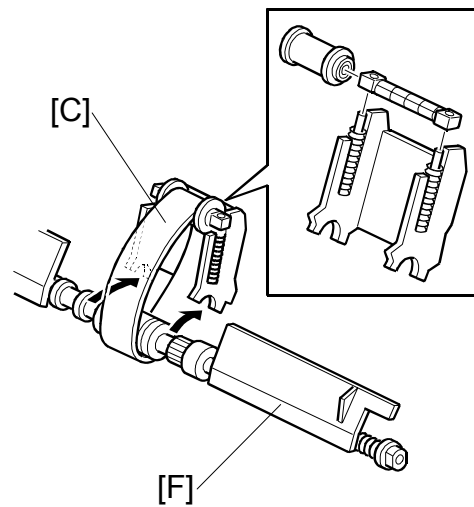B470R003.WMF

Open the feed cover.

[A]: Feed unit
  • The unit is spring loaded. Push it to the right to release it, then lift it out.

[B]: Pick-up roller (⌇ x 2, bushings x 2)

1.3 FEED BELT

B470R004.WMF

B470R005.WMF

Feed unit (☛ 1.2)

[A]: Pick-up roller unit.
  • Pull the unit away from the bushings in the direction of the arrow.
[B]: Feed belt holder
  • Hold the feed belt holder by the sides, then lift up to separate from the holder.
  • Pull slowly to avoid losing the springs.
[C]: Feed belt.

Re-assembly

1. Position the pick-up roller unit [A] and feed belt holder [B] as shown above.

2. On the rear side, slide out the bushing, and rotate [D] until its flat side is parallel with [E], then snap it on.

3. On the front side, rotate [F] until its flat side is parallel with [D], then snap it on. Viewed from the bottom, the plates must be aligned.

Peripherals

B470-3

1.4   GUIDE PLATE ADJUSTMENT
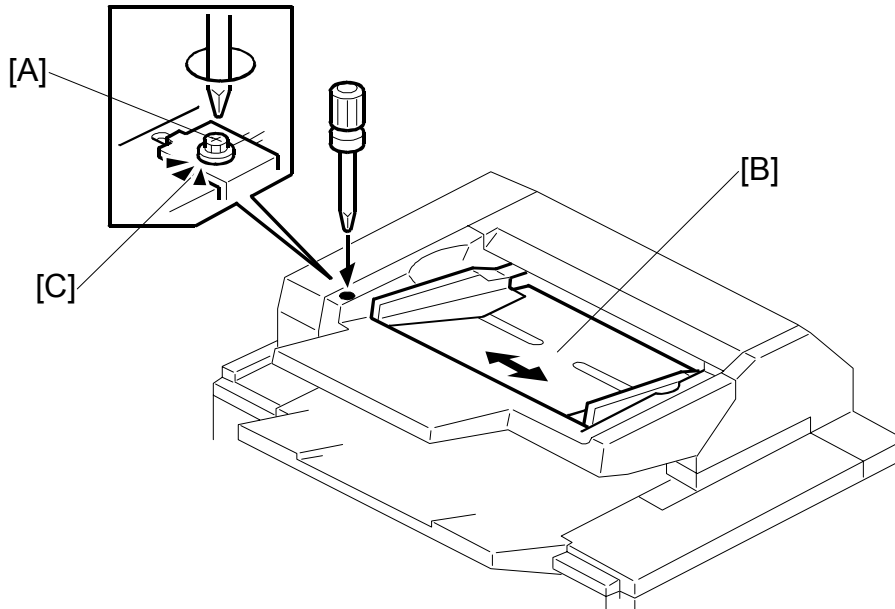
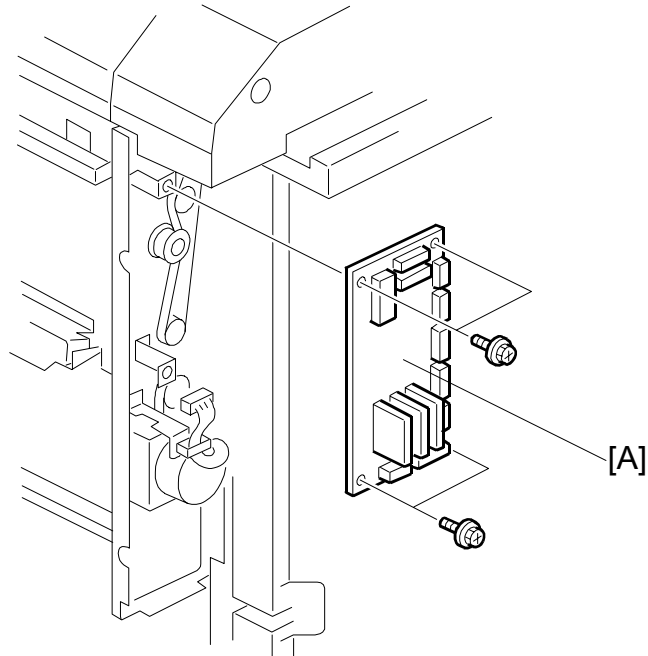B470R151.WMF

Adjust the guide plate if the holes punched in the covers or slip sheets are not correctly aligned with holes punched in the other sheets.

1.   Open the feed cover.

2.   Loosen the screw [A].

3.   Push the table [B] left or right to change its position, then tighten the screw.
     NOTE: If you want to see the scale [C], you must remove the rear cover and the support tray.

1.5 MAIN BOARD

B470R101.WMF

Open the top cover.

Rear cover ($\mathscr{F}$ x 1)

[A]: Main board ($\boxminus$ x 9, $\mathscr{F}$ x 4)

NOTE: All DIP switch settings on the main board of the cover sheet unit should be set to OFF.

Peripherals

1.6 MOTOR REPLACEMENT

1.6.1 VERTICAL TRANSPORT MOTOR

B470R102.WMF
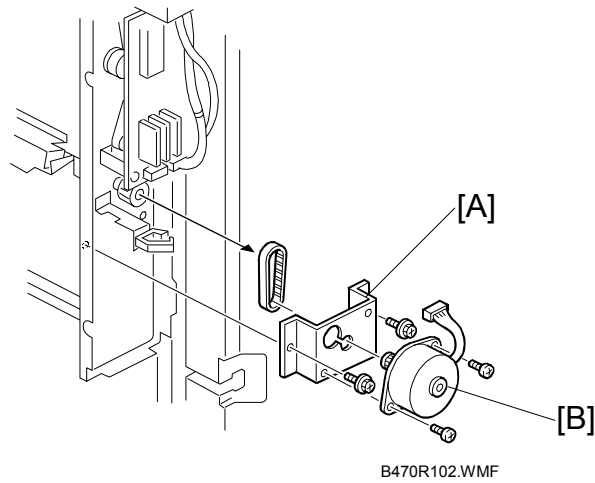
Open the top cover.

Rear middle cover (🔩 x 1) (☛ 1.1)

[A]: Motor bracket (🔌 x 1, harness x 1, 🔩 x 2, timing belt x 1)
[B]: Motor (🔩 x 2)

1.6.2 BOTTOM PLATE LIFT MOTOR

B470R104.WMF

Rear upper cover (☛ 1.1)
[A]: Bottom plate lift motor (harness x 2, 🔌 x 1, 🔩 x 2)

1.6.3 FEED MOTOR, TRANSPORT MOTOR

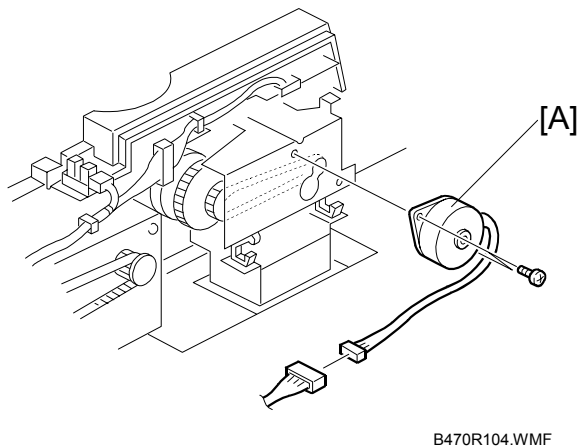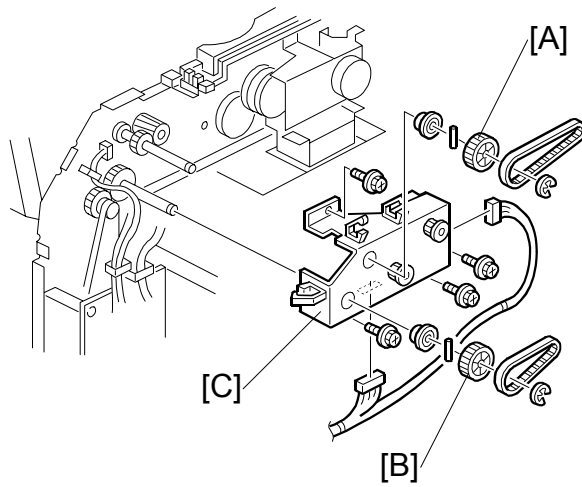B470R105.WMF
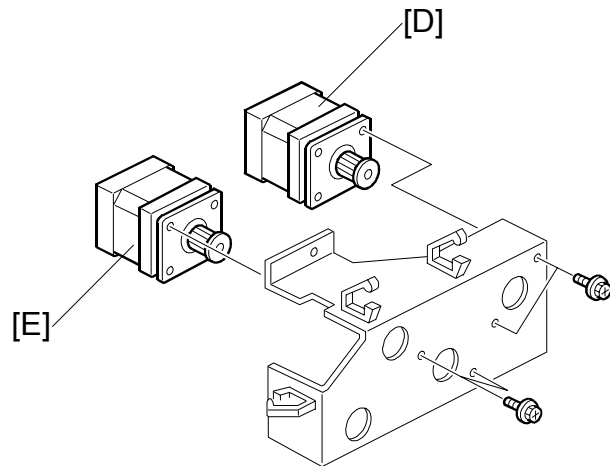
B470R103.WMF

Rear upper cover (☛ 1.1)

NOTE: When removing the feed gear and transport gear, hold one hand under the gear to catch the pin as it falls from the hole in the shaft.

[A]: Feed gear (𝒞 x 1, pin x 1, timing belt x 1, bushing x 1)
[B]: Transport gear (𝒞 x 1, pin x 1, timing belt x 1, bushing x 1)
[C]: Motor bracket (harness x 5, 𝑓 x 4)
[D]: Feed motor (⬚ x 1, 𝑓 x 2)
[E]: Transport motor (⬚ x 1, 𝑓 x 2)

Peripherals

2. DETAILS

2.1 OVERVIEW

2.1.1 MAIN LAYOUT
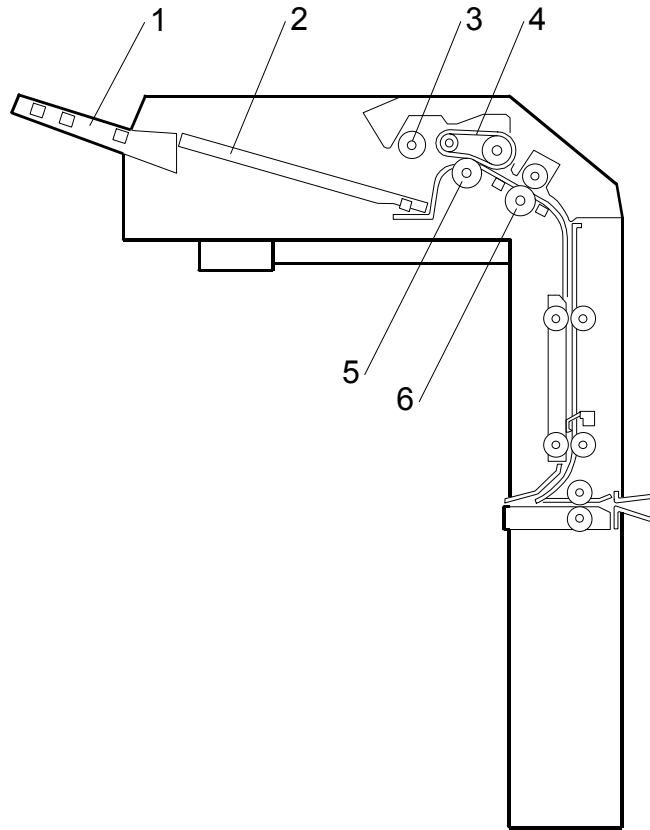
B470D001.WMF

1. Support tray
2. Slip sheet tray
3. Pick-up roller
4. Feed belt
5. Separation roller
6. Grip roller

2.1.2 DRIVE LAYOUT
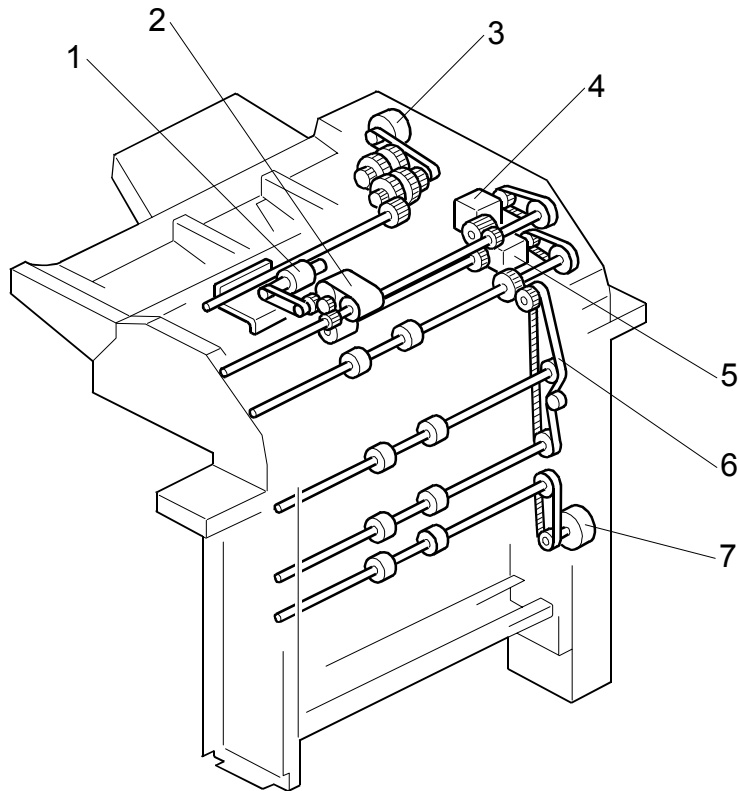
B470D003.WMF

1. Pick-up Roller
2. Feed Belt
3. Bottom Plate Lift Motor
4. Feed Motor
5. Transport Motor
6. Timing Belt
7. Vertical Transport Motor

Peripherals

2.1.3 PAPER SIZE DETECTION

The width sensors [A] (S1, S2, S3) and length sensors [B] (S4, S5, S6) detect the width and length of the original on the interposer feed tray.

DLT SEF
A3 SEF
8 K SEF
B4 SEF
LG 10"x14"
F4
S6
S5 A4 SEF
LT SEF
US EXE SEF 16 K SEF
B5 SEF 8"x10"
S4
HLT SEF LT LEF
A5 SEF 16 K LEF
B5 LEF US EXE LEF
A5 LEF
HLT LEF

P5 P4 P3 P2 P1

S3 S2 S1

B470D901.WMF

B470-10
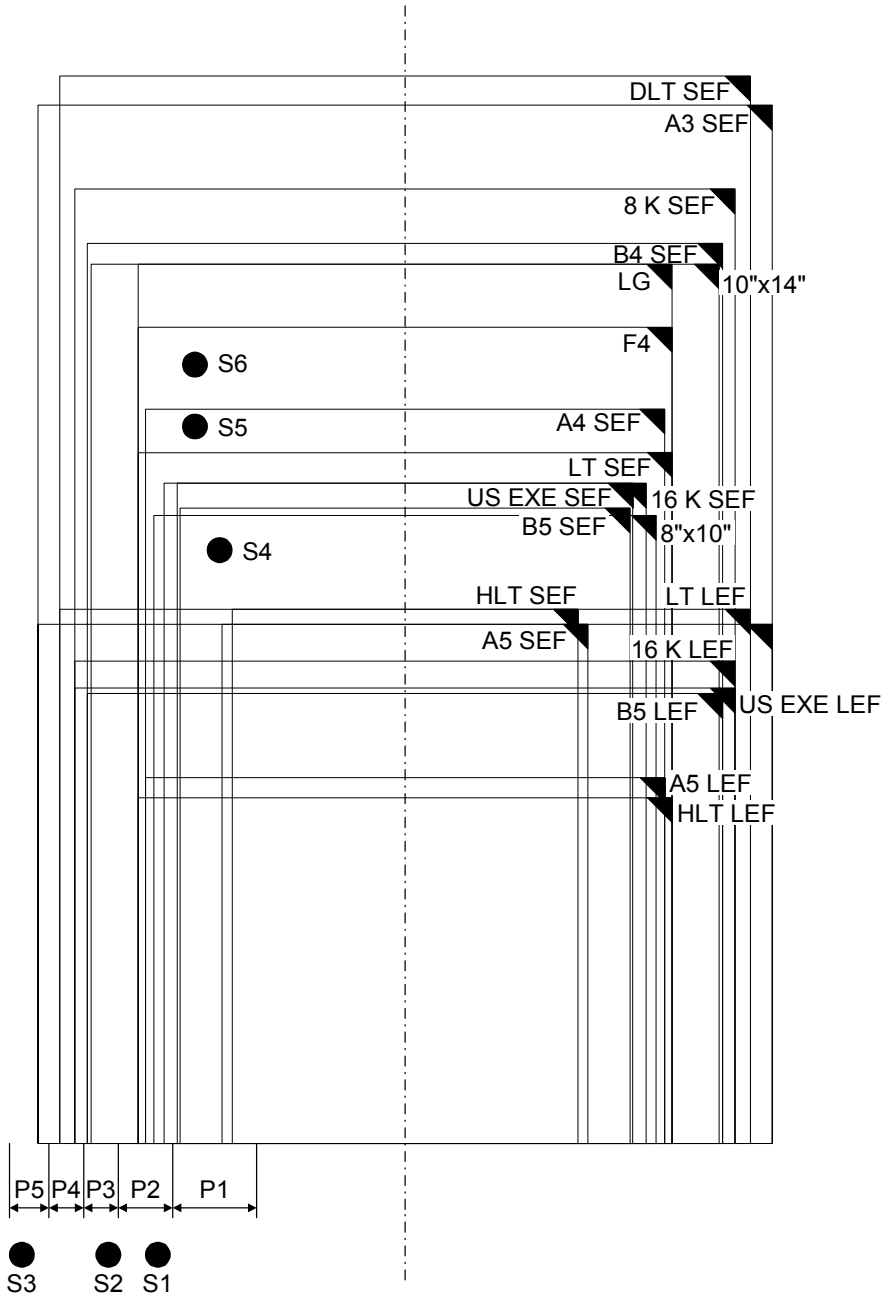
The table below lists the sensor output for each paper size.

	S1	S2	S3	S4	S5	S6
A3	0	1	1	1	1	1
B4	1	1	0	1	1	1
A4 SEF	1	0	0	1	1	0
A4 LEF	0	1	1	0	0	0
B5 SEF	0	0	0	1	0	0
B5 LEF	1	1	0	0	0	0
A5 SEF	0	0	0	0	0	0
A5 LEF	1	0	0	0	0	0
11" x 17"	1	1	1	1	1	1
10" x 14" SEF	1	1	0	1	1	1
8$1/2$" x 14"	1	0	0	1	1	1
8$1/2$" x 13"	1	0	0	1	1	1
8$1/2$" x 11"	1	0	0	1	0	0
11" x 8$1/2$"	1	1	1	0	0	0
8" x 10"	1	0	0	1	0	0
5$1/2$" x 8$1/2$"	0	0	0	0	0	0
8$1/2$" x 5$1/2$"	1	0	0	0	0	0
7$1/2$" x 10$1/2$" (US Exec.)	0	0	0	1	0	0
10$1/2$" x 7$1/2$" (US Exec.)	1	1	1	0	0	0
8 K	1	1	1	1	1	1
16 K SEF	1	0	0	1	0	0
16 K LEF	1	1	1	0	0	0

The cover interposer tray detects all the paper sizes listed above. However, there are some limitations on the display of the correct paper size.

		North America	Europe/Asia
B4 SEF	257 x 364 mm	Displays 10"x14"[1]	
B5 SEF	182 x 257	Displays "US Exec."[1]	
A5 SEF	148 x 210	Displays "HLT SEF"[1]	
A5 LEF	210 x 148	Displays "HLT LEF"[1]	
DLT SEF	11" x 17"		Displays "8K LEF"[2]
LG SEF	8$1/2$" x 14"		Displays "F4 SEF"[2]
LT SEF	8$1/2$" x 11"		Displays "16 K SEF"[2]
LT LEF	11" x 8$1/2$"		Displays "16 K LEF"[2]

[1]: Cannot be corrected.

[2]: B064 series: Can be corrected with SP5959 006 (Paper Size – Cover Sheet).
     B140 series: Can be corrected with SP5158

Peripherals

B064 series: Paper Size Detection

North America

Execute SP5959 006 and enter the correct number for the size of the paper loaded for feeding from the cover interposer tray.

Loaded	Display (Default)	To Select for Display	Enter
8$1/2$" x 13"	8$1/2$" x 14"	8$1/2$" x 13"	165
10$1/2$" x 7$1/2$"	8$1/2$" x 11"	10$1/2$" x 7$1/2$"	173
8" x 10"	8$1/2$" x 11"	8" x 10"	171

Europe/Asia

Execute SP5959 006 and enter the correct number for the size of the paper loaded for feeding from the cover interposer tray.

Loaded	Display (Default)	To Select for Display	Enter
11" x 17"	8 K	11" x 17"	160
8$1/2$" x 11"	16 K SEF	8$1/2$" x 11"	166
11" x 8$1/2$"	16 K LEF	11" x 8$1/2$"	38
8$1/4$" x 13"	8$1/2$" x 13" SEF	8$1/4$" x 13"	168

B070/B071, B140 series: Paper Size Detection

Some paper sizes are almost the same and cannot be detected as different sizes by the sensors. To select the sizes that are detected, use SP 5158.

B132 series: Use SP 6107.
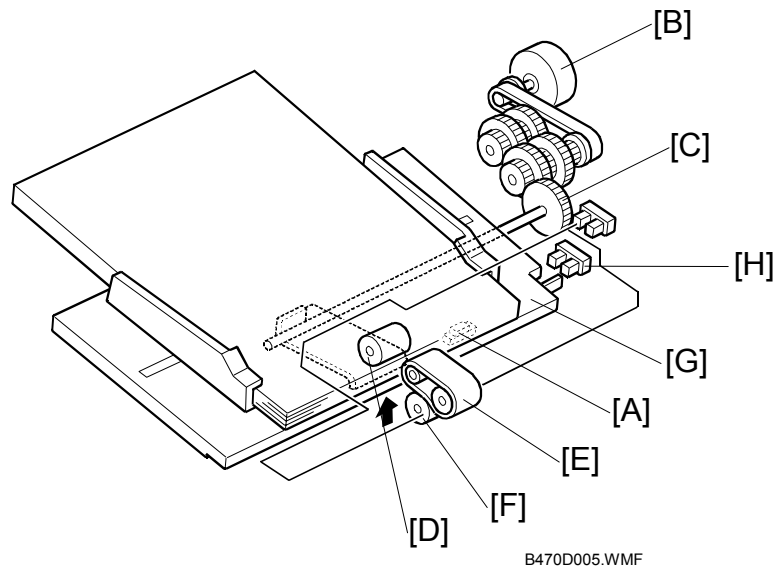
2.1.4 PAPER PATH
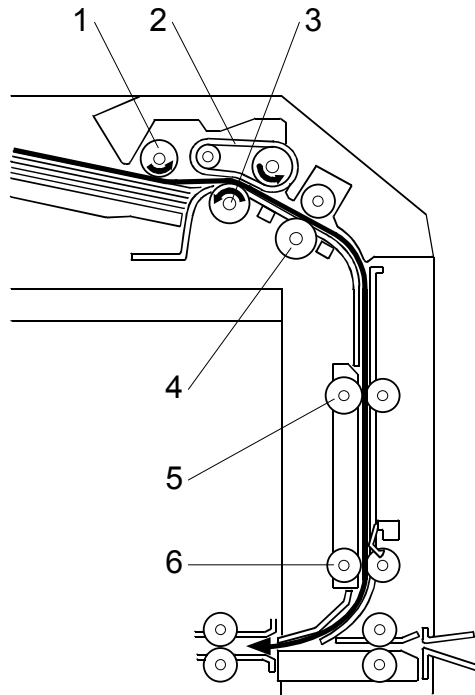
B470D006.WMF

1. Pick-up Roller
2. Feed Belt
3. Separation Roller
4. Grip Roller
5. Transport Roller 1
6. Transport Roller 2

The paper feeds from the tray, to the feed belt, then to the grip roller and down into the paper path to the finisher below.

Peripherals

2.2 PAPER FEED

B470D005.WMF

Power On

When paper is placed on the tray, the paper set sensor [A] in the tray actuates and switches on the bottom plate lift motor [B]. The top of the stack raises the pick-up roller unit until the actuator on this unit actuates the pick-up roller position sensor [C] and switches the motor off.

Paper Separation and Feed

The pick-up roller [D] picks up the original, and the feed belt [E] feeds the sheet to the grip roller. The separation roller [F] reverses if more than one sheet is fed

Bottom Tray Lift

As sheets feed from the top of the stack:
- The pick-up roller unit descends until the actuator on the pick-up roller unit drops out of the pick-up roller position sensor [C].
- The bottom plate lift motor switches on to raise the stack until the actuator enters the pick-up roller unit position sensor again and switches the motor off.
- This repeats until the end of the job or until paper runs out.

Paper Near-end

Near-end is detected when the actuator [G] on the bottom plate enters the near-end sensor [H].

Paper End

After the last sheet feeds the paper set sensor [A] goes off and signals paper out.