3-4-1 Replacing the main PCB

After replacing the main PCB, remove the backup PCB from the old main PCB and fit it to the new main PCB. If the new backup PCB is used, perform the following steps.

<Procedure>

• Before removing the old backup PCB:

1. Record the user settings of the following items which must be reentered after replacement.
   • Program memory
   • Initial mode selection
   • Copy management setting
2. Enter simulation mode.
3. Run the following simulations and record the counts.

Sim. No.	Contents
68	Developing drive time
72	Maintenance count
74	Jam counts
76	Service call counts
77	Copy counts by paper source
78	RDH and sorter counts
79	Setting the maintenance near indication

4. Exit simulation mode.
5. Turn the main switch off and unplug the power cord.
6. Replace the backup PCB with the new one.

• After installing the new backup PCB:
  7. Insert the power plug and turn the main switch on.
  8. Enter simulation mode.
  9. Run simulation 70.
  10. Run simulation 93 to select the destination.

  Caution: Running simulation 93 changes the settings in simulations 79, 80, 84, 85, 92 and 94 (Setting the number of exposure steps) as follows.

93 Setting the destination	**79 Setting the maintenance near indication**	**80 Switching between double/single counts**	**84 Setting the auto clear time**
Japan models	0	Single count	120 s
Inch models	0	Double count	90 s
Metric models	0	Double count	90 s
Asia pacific	0	Double count	90 s

93 Setting the destination	**85 Setting the auto preheat/energy saver time**	**85 Setting the between auto start on/off**	**94 Setting the number of exposure steps**
Japan models	ON	ON	NORMAL MODE
Inch models	ON	ON	SPECIAL MODE
Metric models	ON	ON	SPECIAL MODE
Asia pacific	ON	ON	SPECIAL MODE

  11. Run the following simulation. Reenter the adjustment data recorded on the simulation label and the contents in step 3.

Sim. No.	Contents
09	Setting machine number
14	Setting folio size (metric models only)
15	Adjusting the slack amount before registration
18	Adjusting for duplex unit
24	Setting exposure amount (for equal magnification mode)
25	Adjusting lateral magnification
26	Adjusting longitudinal magnification
27	Adjusting appropriate exposure (Light potential)
28	Setting the lens unit rank
29	Adjusting the exposure amount for enlargement/reduction mode
31	Adjusting transfer timing
32	Adjusting the drum surface potential
52	Adjusting DF registration
54	Setting blank cut margins
56	Adjusting the leading edge registration
58	Selecting the key card/key counter
59	Setting punch hole modes

Sim. No.	Contents
62	*Setting the toner sensor control reference voltage*
64	Adjusting developing bias voltage
68	Checking/setting developing drive time
69	Setting/checking the developer maintenance count
71	Setting the maintenance counter preset value
72	Checking/clearing the maintenance count
74	Checking/clearing jam counts
75	Setting the service call phone No.
76	Changing/clearing service call counts
77	Changing/clearing copy counts by paper source
78	Changing/clearing counts by RDH or sorter
79	Setting the maintenance near indication
80	Switching between double/single count
81	Selecting newspaper original exposure mode
84	Setting the auto clear time
85	Setting the auto preheat/energy saver time
89	Selecting between paper feed/eject count
90	Ignoring the self-diagnostic function
91	Setting operation under the toner empty condition
92	Setting between auto start on/off
93	Setting the destination
94	Switching modes

12. Exit simulation mode.
13. Reenter the contents of the user settings recorded in step 1.

3-4-2 Adjustment-free variable resistors (VR)

The variable resistors listed below are set at the factory prior to shipping and cannot be adjusted in the field.

- Composite PCB : VR1, VR501, VR502, VR503
- High-voltage transformer PCB: VR101, VR102, VR201, VR202, VR301, VR401
- Transfer charger belt bias PCB: VR1, VR501