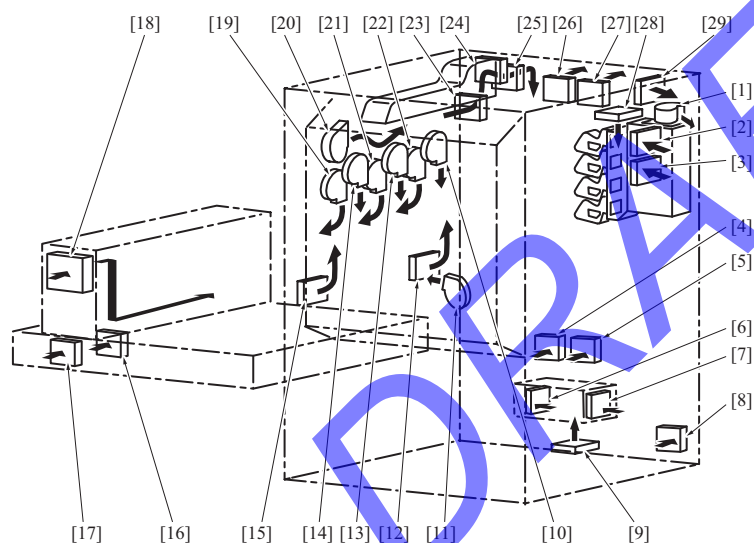


## 19. FAN CONTROL

### 19.1 Configuration



[1]	Main body fan (FM47)	[2]	Developing fan /1 (FM45)
[3]	Developing fan /2 (FM46)	[4]	Power supply cooling fan /3 (FM3)
[5]	Power supply cooling fan /4 (FM4)	[6]	HDD unit cooling fan /2 (FM82) (Option)
[7]	HDD unit cooling fan /1 (FM81) (Option)	[8]	IPB fan /2 (FM6)
[9]	Power supply cooling fan /1 (FM1)	[10]	Fusing separation fan /3 (FM9)
[11]	Charge intake fan (FM48)	[12]	Tucking fan /1 (FM26)
[13]	Fusing separation fan /2 (FM8)	[14]	Fusing separation fan /1 (FM7)
[15]	Tucking fan /3 (FM28)	[16]	ADU cooling fan /2 (FM67)
[17]	ADU cooling fan /1 (FM66)	[18]	Fusing cooling fan (FM65)
[19]	Paper exit fan /1 (FM61)	[20]	Transfer belt fan (FM11)
[21]	Paper exit cooling fan /2 (FM62)	[22]	Paper exit cooling fan /3 (FM63)
[23]	Fusing belt ventilation fan (FM10)	[24]	Fusing ventilation fan (FM37)
[25]	Deodorization fan (FM36)	[26]	Motor cooling fan /1 (FM12)
[27]	Motor cooling fan /2 (FM13)	[28]	IPB fan /1 (FM5)
[29]	Scanner cooling fan (FM2)	-	

## 19.2 Operation

### 19.2.1 Power supply cooling fans /1 (FM1), /3 (FM3), and /4 (FM4) control

#### (1) Purpose

- To cool the DC power supply /1 (DCPS1) and /2 (DCPS2).

#### (2) Low speed/high speed switch timing

- Rotates at low speed during standby
- Switches to high speed upon starting of printing.
- Switches to low speed a specified period of time after printing is finished.

### 19.2.2 Scanner cooling fan (FM2) control

#### (1) Purpose

- To cool the scanner section.

#### (2) ON timing

- Starts to operate upon starting of scanning  
However, always ON during DF scanning

#### (3) OFF timing

- Stops to operate upon finishing of scanning

### 19.2.3 IPB fans /1 (FM5) and /2 (FM6) control

#### (1) Purpose

- To cool around the main board unit.

#### (2) ON timing

- Rotates at low speed during standby
- Starts to operate upon starting of printing
- Starts to operate upon starting of scanning
- Starts to operate upon starting of HDD

#### (3) OFF timing

- Stops to operate upon starting of printing
- Stops to operate upon starting of scanning
- Stops to operate upon starting of HDD

### 19.2.4 Fusing separation fans /1 (FM7), /2 (FM8), and /3 (FM9) control

#### (1) Purpose

- To prevent the wrapping jam to the fusing belt when printing on thin paper

#### (2) ON timing

- After a specified period of time when receiving a print job

#### (3) OFF timing

- When the fusing paper exit sensor (PS17) detects the trailing edge of the last paper
- When the fusing release home sensor (PS16) detects other than the home position

### 19.2.5 Fusing belt ventilation fan (FM10) control

#### (1) Purpose

- To cool around fusing section on the paper exit side.

#### (2) Low speed/high speed switch timing

- Rotates at low speed during standby.
- Switches to high speed upon starting of printing.
- Switches to low speed a specified period of time after printing is finished.

### 19.2.6 Transfer belt fan (FM11) control

#### (1) Purpose

- To cool around the transfer belt.

## (2) ON timing

- Starts to operate upon starting of printing

## (3) OFF timing

- Stops to operate a specified period of time after finishing of printing

## 19.2.7 Drum fans /1 (FM12) and /2 (FM13) control

## (1) Purpose

- To exhaust the heat around the drum motor/developing motor.

## (2) ON timing

- Starts to operate upon starting of printing

## (3) OFF timing

- Stops to operate a specified period of time after finishing of printing

## 19.2.8 Tucking fans /1 (FM26), and /3 (FM28) control

## (1) Purpose

- To cool around the reversing exit section and paper.

## (2) ON timing

- OFF during printing on the front side of duplex print
- Starts to operate upon starting of printing on the back side of simplex and duplex print

## (3) OFF timing

- Stops to operate when the simplex counter reaches the specified condition during job.

## 19.2.9 Deodorization fan (FM36) control

## (1) Purpose

- To cool around the fusing section.

## (2) Low speed/high speed switch timing

- Rotates at low speed during standby
- Switches to high speed upon starting of printing.
- Switches to low speed a specified period of time after printing is finished.

## 19.2.10 Fusing ventilation fan (FM37) control

## (1) Purpose

- To cool around the fusing section.

## (2) Low speed/high speed switch timing

- Rotates at low speed during standby
- Switches to high speed upon starting of printing.
- Switches to low speed a specified period of time after printing is finished.

## 19.2.11 Developing fans /1 (FM45) and /2 (FM46) control

## (1) Purpose

- To cool around the developing section.

## (2) ON timing

- Starts to operate upon starting of developing motor /Y (M20), developing motor /M (M21), developing motor /C (M22), and developing motor /K (M23)

## (3) OFF timing

- Stops to operate a specified period of time after finishing of printing
- The time to stop differs depending on the environmental humidity. (Maximum. 5 minutes 30 seconds)

## 19.2.12 Main body fan (FM47) control

## (1) Purpose

- To cool around the drum.

## (2) ON timing

- Starts to operate upon starting of developing motor /Y (M20), developing motor /M (M21), developing motor /C (M22), and developing motor /K (M23)

## (3) OFF timing

- Stops to operate a specified period of time after finishing of printing
- The time to stop differs depending on the environmental humidity. (Maximum. 5 minutes 30 seconds)

## 19.2.13 Charge intake fan (FM48) control

## (1) Purpose

- To cool around the charging corona.

## (2) ON timing

- Starts to operate upon starting of charging
- Starts to operate upon starting of image stabilization control

## (3) OFF timing

- Stops to operate a specified period of time after finishing of printing
- Stops to operate a specified period of time after finishing of image stabilization control

## 19.2.14 Paper exit cooling fans /1 (FM61), /2 (FM62), and /3 (FM63) control

## (1) Purpose

- To cool the exited paper to prevent the wax unevenness.

## (2) ON timing

- Starts to operate upon starting of printing

## (3) OFF timing

- When FS is connected: Stops to operate after a specified period of time since the paper exit sensor of FS turns OFF
- When FS is not connected: Stops to operate after a specified period of time since the paper exit sensor (PS13) of the main body turns OFF

## 19.2.15 Fusing cooling fan (FM65) control

## (1) Purpose

- To cool the fusing roller /Lw.

## (2) ON timing

- Starts to operate when the temperature of the fusing roller /Lw is higher than the regulated control temperature and the gap is more than the specified gap.
- FM65 and the fusing heater lamp /4 (L5) do not turn ON at the same time.

## (3) OFF timing

- Stops to operate when the temperature of the fusing roller /Lw reaches to the specified temperature.

## 19.2.16 ADU cooling fan /1 (FM66) control

## (1) Purpose

- To cool the ADU.

## (2) ON timing

- Starts to operate upon starting of printing in the duplex mode/reversing exit mode.

## (3) OFF timing

- Stops to operate a specified period of time after finishing of printing

## 19.2.17 ADU cooling fan /2 (FM67) control

## (1) Purpose

- To cool the ADU loop motor (M57) and the ADU reverse motor (M32).

## (2) ON timing

- Starts to operate upon starting of printing in the duplex mode/reversing exit mode.

## (3) OFF timing

- Stops to operate a specified period of time after finishing of printing

## 19.2.18 HDD unit cooling fans /1 (FM81) and /2 (FM82) control (option)

## (1) Purpose

- To cool down the HDD/Y, /M, /C, /K, /A and /P in the HD-514 (option).

## (2) ON/OFF timing

- Turns ON/OFF in accordance with the ON/OFF of the sub power switch (SW2).