

D046/D049/D154/D155 ELECTRICAL COMPONENT LAYOUT (1/2)

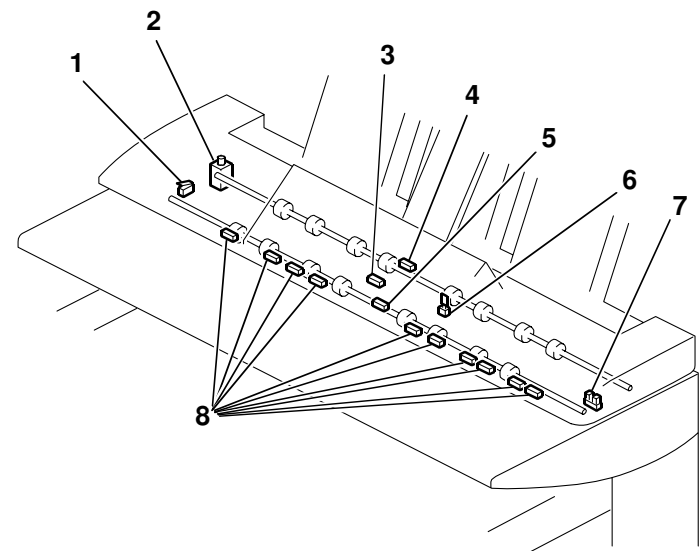


Fig-1

D046V101

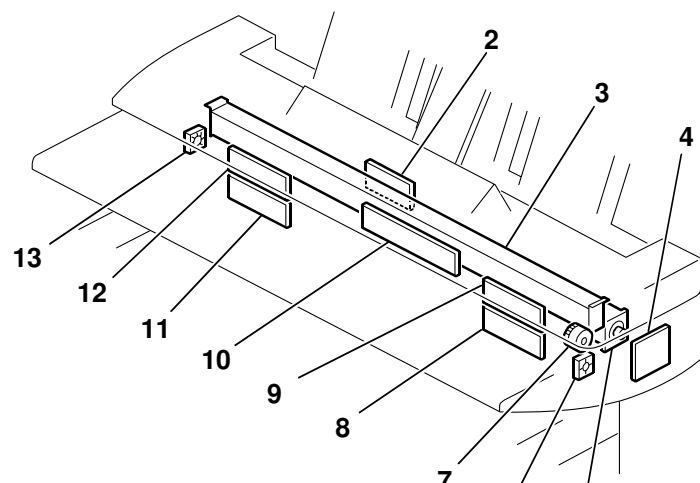


Fig-2

D046V102

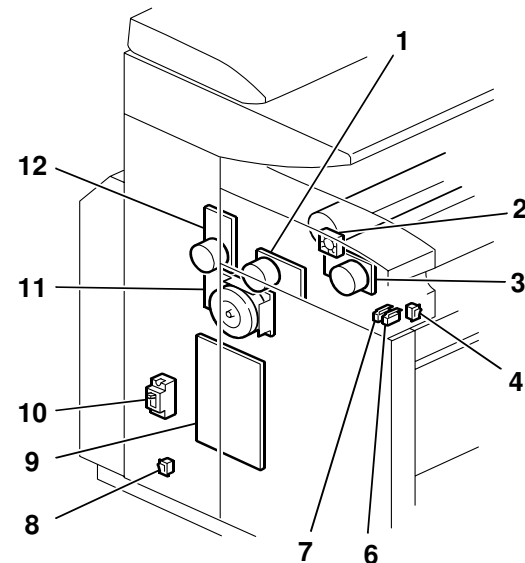


Fig-3

D046V103

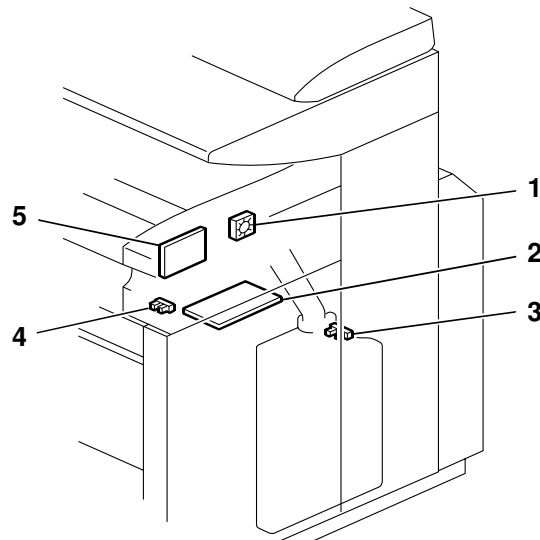


Fig-4

D046V104

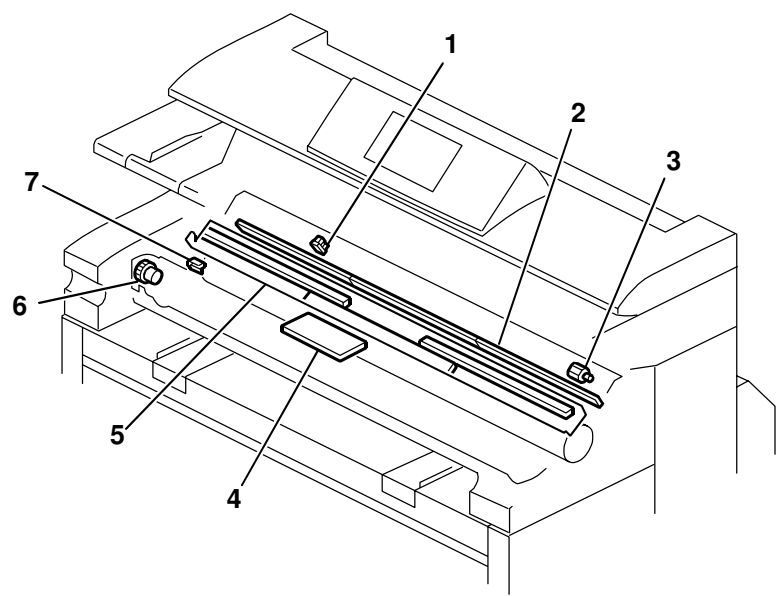


Fig-5

D046V105

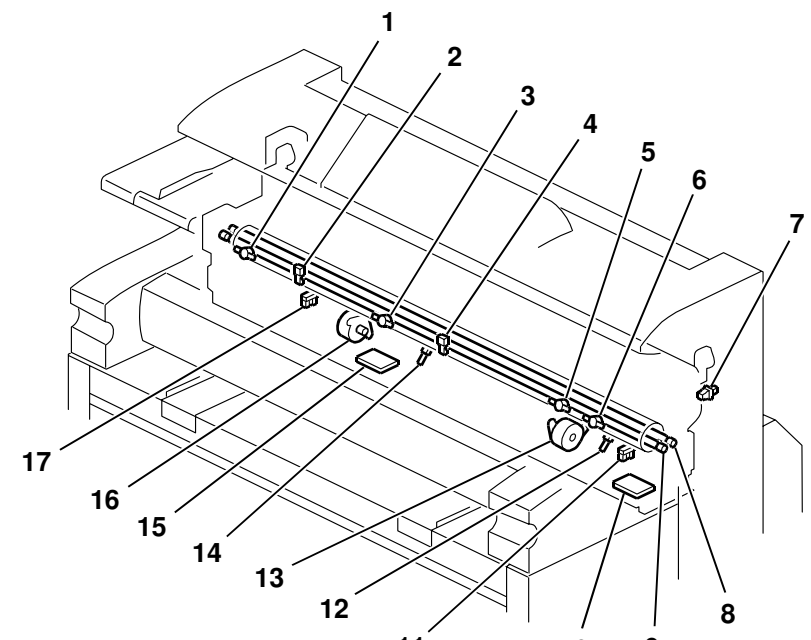


Fig-6

D046V106

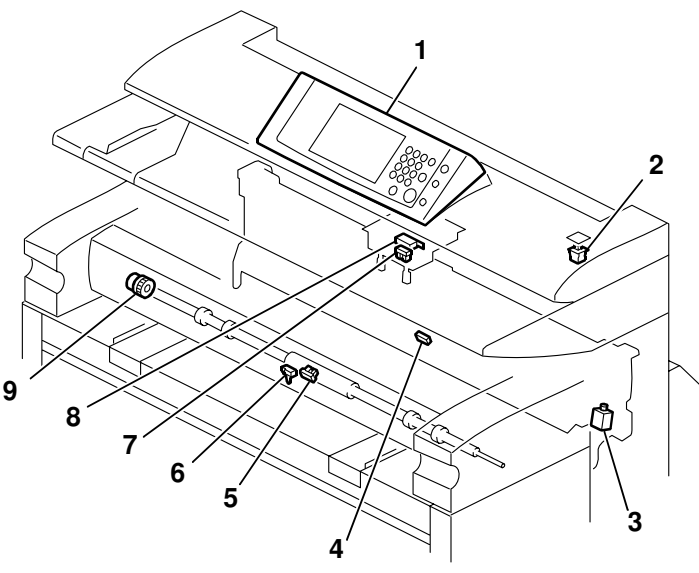


Fig-7

D046V107

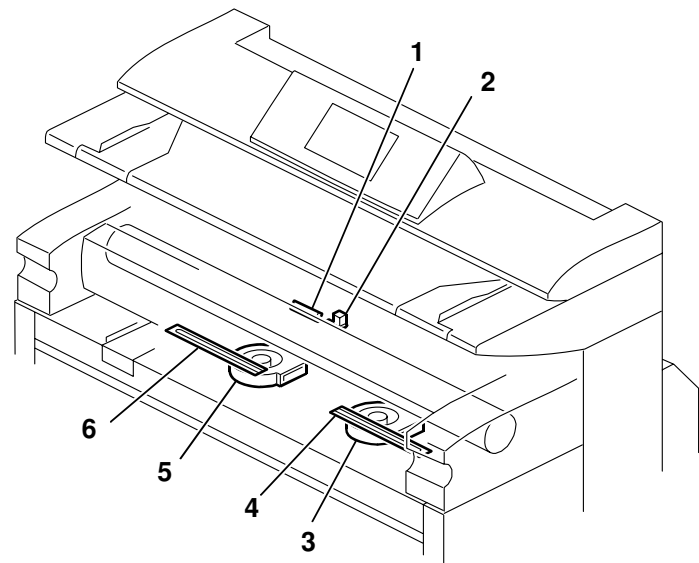


Fig-8

D046V108

D046/D049/D154/D155 ELECTRICAL COMPONENT LAYOUT (2/2)

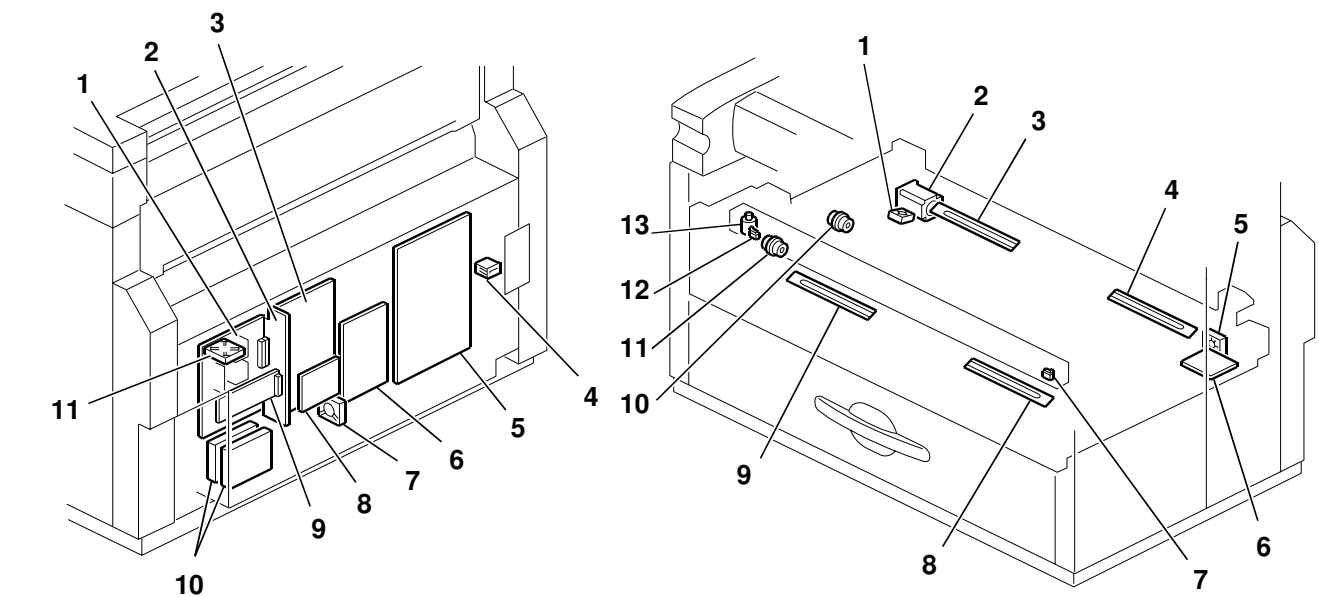


Fig-9 D046V109a

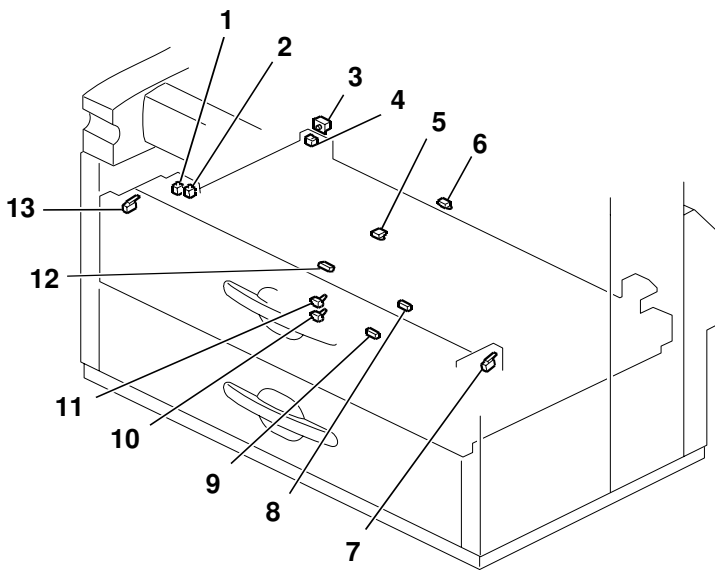


Fig-11 D046V111

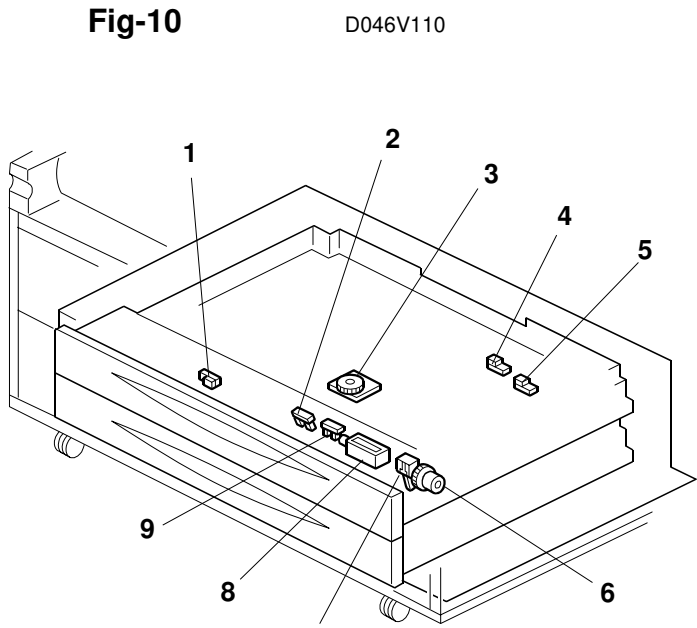


Fig-10 D046V110

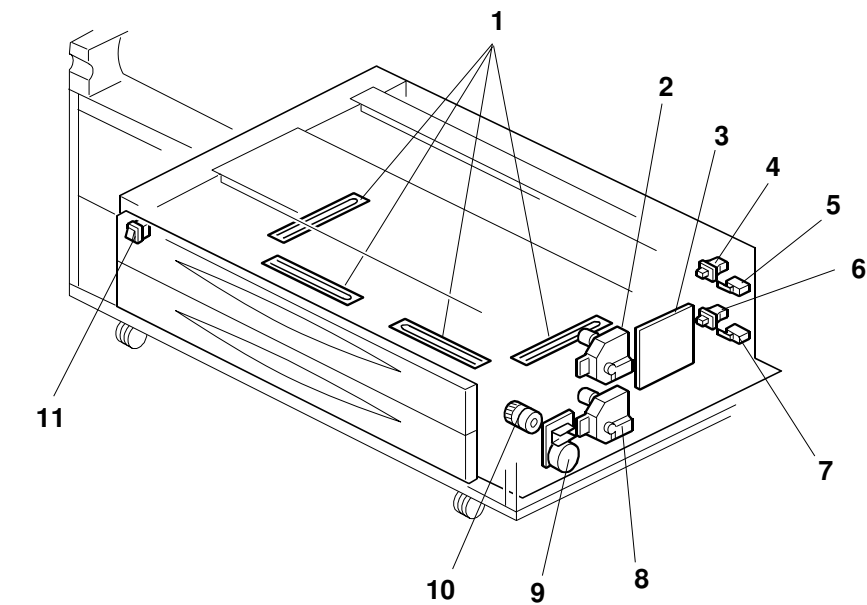


Fig-13 B759V101

Fig-12 B759V102a

Symbol	Name	Index No.	P-to-	Page
Boards				
PCB1	SIB	Fig 2-2	B2	1/2
PCB2	IOB	Fig 9-6	F9	1/2
PCB3	T&S Power Pack	Fig 4-2	A8	1/2
PCB4	CBG Power Pack	Fig 4-5	A9	1/2
PCB5	VDB	Fig 5-4	E3	1/2
PCB6	AC Control Board	Fig 3-9	D8	1/2
PCB7	PSU	Fig 9-5	E6	1/2
PCB8	BCU	Fig 9-8	A3	2/2
PCB9	IPU	Fig 9-3	E2	2/2
PCB10	File Format Converter	Fig 9-9	C4	2/2
PCB11	MB	Fig 9-2	E3	2/2
PCB12	GW Controller	Fig 9-1	F3	2/2
PCB13	PFB	Fig 13-3	C6	2/2
PCB14	RFDB (Upper Tray)	Fig 10-6	D9	2/2
PCB15	RFDB (Lowdr Tray)	Fig 10-6	G9	2/2
PCB16	CJS	Fig 2-3	E2	1/2
PCB17	FPDB: Right	Fig 6-15	A7	1/2
PCB18	FPDB: Left	Fig 6-10	A7	1/2
PCB19	Lamp Regulator 1	Fig 2-8	D2	1/2
PCB20	Lamp Regulator 2	Fig 2-9	D2	1/2
PCB21	Lamp Regulator 3	Fig 2-10	D2	1/2
PCB22	Lamp Regulator 4	Fig 2-11	D2	1/2
PCB23	SDB	Fig 2-4	A3	1/2
PCB24	Operation Panel	Fig 7-1	G4	2/2
Motors				
M1	Scanner Fan: Left	Fig 2-13	A2	1/2
M2	Scanner Fan: Right	Fig 2-6	A3	1/2
M3	Scanner Motor	Fig 2-5	A3	1/2
M4	Main Motor	Fig 3-3	A5	1/2
M5	Registration Motor	Fig 3-1	A6	1/2
M6	Fusing/Exit Motor	Fig 3-12	A6	1/2
M7	LPH Fan: Left	Fig 3-2	A6	1/2
M8	Development Motor	Fig 3-11	A7	1/2
M9	Right Fusing Pressure Motor	Fig 6-13	A7	1/2
M10	Left Fusing Pressure Motor	Fig 6-16	A7	1/2
M11	LPH Fan: Right	Fig 4-1	A8	1/2
M12	Wire Motor	Fig 5-3	A9	1/2
M13	Transport Fan Motor: Left	Fig 8-5	C8	1/2
M14	Transport Fan Motor: Right	Fig 8-3	C8	1/2
M15	Controller Fan 1	Fig 9-7	F5	2/2
M16	Controller Fan 2	Fig 9-11	F5	2/2
M17	Lift Motor 1	Fig 13-2	D6	2/2
M18	Lift Motor 2	Fig 13-8	D6	2/2
M19	Cassette Feed Motor	Fig 13-9	E7	2/2
M20	Upper Roll Feed Motor Fan	Fig 10-1	A10	2/2
M21	Upper RFDB Fan	Fig 10-5	A10	2/2
M22	Upper Tray Cutter Motor	Fig 10-13	C10	2/2
M23	Upper Roller Feed Motor	Fig 10-2	D10	2/2
M24	Roll Feed Motor 2 Fan	Fig 10-1	D10	2/2
M25	Lower RFDB Fan	Fig 10-5	D10	2/2
M26	Lower Tray Cutter Motor	Fig 10-13	G10	2/2
M27	Roll Feed Motor 2	Fig 10-2	G10	2/2
Switches				
SW1	Scanner Switch	Fig 1-1	A4	1/2
SW2	Toner Hopper Cover Switch	Fig 5-7	A6	1/2
SW3	Fusing Guide Switch	Fig 6-7	A8	1/2
SW4	Anti-Condensation Heater Safety Switch 1	Fig 11-3	D7	1/2
SW5	Anti-Condensation Heater Safety Switch 2	Fig 11-3	D6	1/2
SW6	Anti-Condensation Heater Switch 1	Fig 11-4	D5	1/2
SW7	Anti-Condensation Heater Switch 2	Fig 11-4	D5	1/2
SW8	Anti-Condensation Heater Switch 3	Fig 13-11	D5	1/2
SW9	Anti-Condensation Heater Switch 4	Fig 3-8	D6	1/2
SW10	Main Power Switch	Fig 3-4	E6	1/2
SW11	Circuit Breaker	Fig 3-10	E6	1/2
SW12	Exit Cover Switch	Fig 7-8	E7	1/2
SW13	Upper Unit Safety Switch 1	Fig 3-6	F7	1/2
SW14	Upper Unit Safety Switch 2	Fig 3-7	F7	1/2
SW15	Paper Width Switch 1	Fig 12-3	B7	2/2
SW16	Cassette Open Switch 1	Fig 13-4	B7	2/2
SW17	Paper Width Switch 2	Fig 12-3	C7	2/2
SW18	Cassette Open Switch 2	Fig 13-6	D6	2/2
SW19	Cassette Detection Switch 2	Fig 13-7	D6	2/2
SW20	Cassette Detection Switch 1	Fig 13-5	D6	2/2
SW21	1st Roll Feed Switch	Fig 11-1	A8	2/2
SW22	2nd Roll Feed Switch	Fig 11-2	A8	2/2
SW23	Left Cutter HP Switch 1	Fig 10-12	A10	2/2
SW24	Right Cutter HP Switch 1	Fig 10-7	A10	2/2
SW25	Left Cutter Safety Switch 1	Fig 11-13	B10	2/2
SW26	Right Cutter Safety Switch 1	Fig 11-7	B10	2/2
SW27	Upper Tray Safety Switch	Fig 11-3	D10	2/2
SW28	3rd Roll Feed Switch	Fig 11-1	E8	2/2
SW29	4th Roll Feed Switch	Fig 11-2	E8	2/2
SW30	Left Cutter HP Switch 2	Fig 10-12	E10	2/2
SW31	Right Cutter HP Switch 2	Fig 10-7	E10	2/2
SW32	Left Cutter Safety Switch 2	Fig 11-?	E10	2/2
SW33	Right Cutter Safety Switch 2	Fig 11-7	E10	2/2
SW34	Lower Roll Tray Safety Switch	Fig 11-3	G10	2/2
SW35	Original Stop Switch	Fig 7-2	A3	1/2

Symbol	Name	Index No.	P-to-	Page
Clutches				
MC1	Original Feed Clutch	Fig 2-7	A3	1/2
MC2	Registration Clutch	Fig 7-9	C6	1/2
MC3	Toner Supply Clutch	Fig 5-6	C5	1/2
MC4	Paper Feed Clutch 1	Fig 12-6	A7	2/2
MC5	Paper Feed Clutch 2	Fig 12-6	C7	2/2
MC6	Paper Transport Clutch	Fig 13-10	D7	2/2
MC7	2nd Roll Feed Clutch	Fig 10-10	B10	2/2
MC8	1st Roll Feed Clutch	Fig 10-11	B10	2/2
MC9	Roll Feed Clutch 4	Fig 10-10	E10	2/2
MC10	Roll Feed Clutch 3	Fig 10-11	E10	2/2
Solenoids				
SOL1	Original Exit JG Solenoid	Fig 1-2	A3	1/2
SOL2	Paper JG Solenoid	Fig 7-3	A6	1/2
SOL3	Exit Solenoid	Fig 8-2	A8	1/2
SOL4	Pickup Solenoid 1	Fig 12-8	B7	2/2
SOL5	Pickup Solenoid 2	Fig 12-8	C7	2/2
Sensors				
S1	Original Width Sensor: 600 mm	Fig 1-8	A1	1/2
S2	Original Width Sensor: 914 mm	Fig 1-8	A1	1/2
S3	Original Width Sensor: B4	Fig 1-8	A1	1/2
S4	Original Width Sensor: B3	Fig 1-8	A1	1/2
S5	Original Width Sensor: B2	Fig 1-8	A1	1/2
S6	Original Width Sensor: B1	Fig 1-8	A1	1/2
S7	Original Width Sensor: A	Fig 1-8	A2	1/2
S8	Original Set Sensor: A2	Fig 1-8	A2	1/2
S9	Original Set Sensor: A1	Fig 1-8	A2	1/2
S10	Original Set Sensor: A0	Fig 1-8	A2	1/2
S11	Original Set Sensor: A4	Fig 1-5	A2	1/2
S12	Scanner Open Sensor	Fig 1-7	A2	1/2
S13	Original Registration Sensor	Fig 1-3	A2	1/2
S14	Original Exit Sensor	Fig 1-4	A2	1/2
S15	ID Sensor	Fig 8-1	A6	1/2
S16	Right Fusing Pressure Motor HP Sensor	Fig 6-17	A7	1/2
S17	Left Fusing Pressure Motor HP Sensor	Fig 6-11	A7	1/2
S18	Exit Sensor	Fig 7-4	A8	1/2
S19	Toner Overflow Sensor	Fig 4-3	A8	1/2
S20	Upper Unit Open Sensor: Right	Fig 4-4	A8	1/2
S21	Wire Motor Lock Sensor	Fig 5-1	A9	1/2
S22	Roll End Sensor 2	Fig 11-6	C8	1/2
S23	Roll End Sensor 1	Fig 11-5	C8	1/2
S24	Copy Tray Overflow Sensor	Fig 7-7	C6	1/2
S25	Bypass Feed Sensor	Fig 7-6	C5	1/2
S26	Registration Sensor	Fig 7-5	C5	1/2
S27	Paper Feed Sensor 1	Fig 12-1	A7	2/2
S28	Tray Lift Sensor 1	Fig 12-2	A7	2/2
S29	Paper Near End Sensor 1	Fig 12-7	B7	2/2
S30	Paper End Sensor 1	Fig 12-9	B7	2/2
S31	Paper Length Sensor 1	Fig 12-4	B7	2/2
S32	Paper Length Sensor 1: 9 in.	Fig 12-5	B7	2/2
S33	Paper Feed Sensor 2	Fig 12-1	C7	2/2
S34	Tray Lift Sensor 2	Fig 12-2	C7	2/2
S35	Paper Near End Sensor 2	Fig 12-7	C7	2/2
S36	Paper End Sensor 2	Fig 12-9	C7	2/2
S37	Paper Length Sensor 2	Fig 12-4	D7	2/2
S38	Paper Length Sensor 2: 9 in.	Fig 12-5	D7	2/2
S39	Roll White Core End Sensor 1	Fig 11-9	B8	2/2
S40	Roll White Core End Sensor 2	Fig 11-8	A8	2/2
S41	1st Roll Entrance Sensor	Fig 11-11	A8	2/2
S42	2nd Roll Entrance Sensor	Fig 11-10	A8	2/2
S43	Upper Tray LE Sensor	Fig 11-12	A8	2/2
S44	Roll White Core End Sensor 3	Fig 11-9	E8	2/2
S45	Roll White Core End Sensor 4	Fig 11-8	E8	2/2
S46	3rd Roll Entrance Sensor	Fig 11-11	D8	2/2
S47	4th Roll Entrance Sensor	Fig 11-10	D8	2/2
S48	Lower Tray LE Sensor	Fig 11-12	D8	2/2
S49	Roll End Sensor 4	Fig 11-6	D10	2/2
S50	Roll End Sensor 3	Fig 11-5	E10	2/2
Others				
L1	Xe Lamp 1	Fig 2-3	D2	1/2
L2	Xe Lamp 2	Fig 2-3	D2	1/2
L3	Xe Lamp 3	Fig 2-3	D2	1/2
L4	Xe Lamp 4	Fig 2-3	D2	1/2
L5	Fusing Lamp 1	Fig 6-8	D8	1/2
L6	Fusing Lamp 2	Fig 6-9	D8	1/2
H1	Anti-Condensation Heater: Upper Tray	Fig 10-3	D5	1/2
H2	Anti-Condensation Heater: Upper Tray	Fig 10-4	D5	1/2
H3	Anti-Condensation Heater: Upper Tray	Fig 10-8	D5	1/2
H4	Anti-Condensation Heater: Upper Tray	Fig 10-9	D5	1/2
H5	Anti-Condensation Heaters: Lower Trays	Fig 10-3	D5	1/2
H6	Anti-Condensation Heaters: Lower Trays	Fig 10-4	D5	1/2
H7	Anti-Condensation Heaters: Lower Trays	Fig 10-8	D5	1/2
H8	Anti-Condensation Heaters: Lower Trays	Fig 10-9	D5	1/2
H9	Anti-Condensation Heaters: Cassettes 9W	Fig 13-1	D5	1/2
H10	Anti-Condensation Heaters: Cassettes 9W	Fig 13-1	D5	1/2
H11	Anti-Condensation Heaters: Cassettes 9W	Fig 13-1	D5	1/2
H12	Anti-Condensation Heaters: Cassettes 9W	Fig 13-1	D5	1/2
H13	Anti-Condensation Heater: Drum 13W	Fig 8-6	D6	1/2
H14	Anti-Condensation Heater: Drum 13W	Fig 8-4	D6	1/2
TH1	Scanner Thermistor	Fig 1-6	A3	1/2
TH2	Hot Roller Thermistor: Center	Fig 6-4	D8	1/2
TH3	Hot Roller Thermistor: End (D046 only)	Fig 6-2	D8	1/2
TH4	Pressure Roller Thermistor: Center	Fig 6-14	D9	1/2
TH5	Pressure Roller Thermistor: End	Fig 6-12	D8	1/2
TS1	Thermostat: 199°C	Fig 6-3	D8	1/2
TS2	Thermostat: 200°C	Fig 6-1	D8	1/2
TS3	Thermostat: 200°C	Fig 6-6	D8	1/2
TS4	Thermostat: 199°C	Fig 6-5	D8	1/2
LED1	LPH 1	Fig 5-5	F3	1/2
LED2	LPH 2	Fig 5-5	E3	1/2
LED3	LPH 3	Fig 5-5	D3	1/2
TC1	Total Feed Meter (Recycle Counter)	Fig 9-4	C5	1/2
QL1	Quenching Lamp: Left	Fig 5-2	A9	1/2
QL2	Quenching Lamp: Center	Fig 5-2	A9	1/2
QL3	Quenching Lamp: Right	Fig 5-2	A9	1/2

D046/D049/D154/D155 POINT TO POINT DIAGRAM (1/2)

Grid Labels:

- Columns (1-10):** 1, 2, 3, 4, 5, 6, 7, 8, 9, 10
- Rows (A-G):** A, B, C, D, E, F, G

Key Components and Sections:

- SIB (PCB1):** Located in the upper left, containing various sensors and control logic.
- CIS (PCB16):** Charge Image Sensor unit, shown in two locations (left and right).
- VDB (PCB5):** Vertical Drum Board, central component with multiple FFC connectors.
- LPH Unit:** Laser Photocopier Unit, including LPH1 (LED1) and LPH2 (LED2).
- AC Control Board (PCB6):** Manages power distribution and includes anti-condensation heaters.
- PSU (PCB7):** Power Supply Unit, converting AC input to various DC voltages.
- IOB (PCB2):** Input/Output Board, interfacing with the MB (Main Board).
- Fusing Unit:** Contains fusing lamps and pressure rollers.
- AC IN:** Main power input connection.
- Option:** Sections for optional features like anti-condensation heaters and fusing units.

Wiring Details:

- The diagram shows extensive wiring between components, with labels for specific pins and signal names (e.g., GND, VCC, DATA, RESET).
- Connectors like FFC (Flexible Flat Cable) and various multi-pin connectors are used for inter-board communication.
- Power lines are clearly marked with voltage levels (e.g., 5V, 12V, 24V).

G

D046/D049/D154/D155 POINT TO POINT DIAGRAM (2/2)

