

B244/B268/B269/B276/B277 POINT TO POINT DIAGRAM

This diagram illustrates the point-to-point wiring for the B244/B268/B269/B276/B277 series. It details the connections between various components, including the Power Supply Unit (PCB6), Duplex Control Board (PCB9), GDI Controller (PCB2), and various sensor and motor boards.

Power Supply Unit (PCB6): Shows the AC input (AC-L, AC-N) and the resulting power distribution to various components. Key components include fusing lamps (L2, L4), fusing thermistors (TH1, TH2), and a main switch (SW7).

Duplex Control Board (PCB9): Details the connections for the Duplex Control Board, including the Duplex Motor, Duplex Sensor, and Duplex Inverter.

GDI Controller (PCB2): Shows the connections for the GDI Controller, including the USB and Network Interface Board (Option).

Paper Tray Unit - 1 Trays (B385): Details the connections for the Paper Tray Unit, including the Paper Feed Motor, Paper Feed Sensor, and Paper Feed Switch.

Paper Tray Unit - 2 Trays (B384): Details the connections for the Paper Tray Unit, including the Paper Feed Motor, Paper Feed Sensor, and Paper Feed Switch.

DF Drive Board (PCB1): Details the connections for the DF Drive Board, including the DF Feed Motor, DF Feed Sensor, and DF Feed Switch.

Auto Reverse Document Feeder (B617): Details the connections for the Auto Reverse Document Feeder, including the Paper Feed Motor, Paper Feed Sensor, and Paper Feed Switch.

Auto Document Feeder (B616): Details the connections for the Auto Document Feeder, including the Paper Feed Motor, Paper Feed Sensor, and Paper Feed Switch.

One-Bin Tray (B621): Details the connections for the One-Bin Tray, including the Paper Feed Motor, Paper Feed Sensor, and Paper Feed Switch.

One-Bin Tray Board (PCB1): Details the connections for the One-Bin Tray Board, including the Paper Feed Motor, Paper Feed Sensor, and Paper Feed Switch.

Operation Panel Board (MFP) (PCB10): Details the connections for the Operation Panel Board (MFP), including the Paper Feed Motor, Paper Feed Sensor, and Paper Feed Switch.

Operation Panel Board (Basic) (PCB3): Details the connections for the Operation Panel Board (Basic), including the Paper Feed Motor, Paper Feed Sensor, and Paper Feed Switch.

Power Pack - 1 (BCT/CL PPH): Details the connections for the Power Pack - 1, including the Paper Feed Motor, Paper Feed Sensor, and Paper Feed Switch.

Symbol Table:

- Signal Direction
- Active High
- Active Low
- Voltage

B244/B268/B269/B276/B277 POINT TO POINT DIAGRAM

This diagram illustrates the point-to-point wiring connections for the B244/B268/B269/B276/B277 series. It details the connections between various components, including the Power Supply Unit (PCB6), Duplex Control Board (PCB9), GDI Controller (PCB2), and various sensors and actuators.

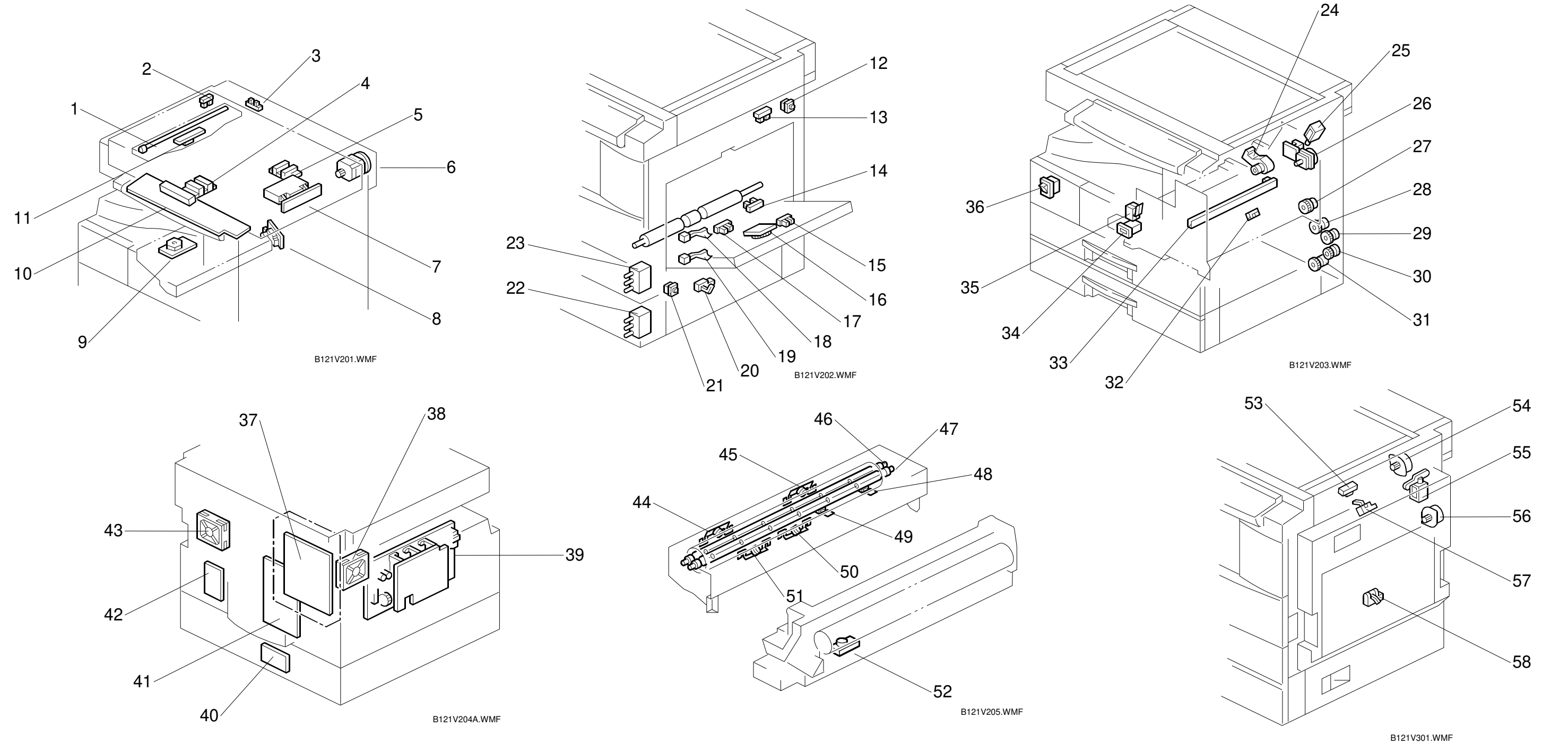
Power Supply Unit (PCB6): Shows connections for AC-L, AC-N, and AC-B. It includes fuses (TS1, TS2, TS3, TS4), a main switch (SW7), and a choke coil (E1).

Duplex Control Board (PCB9): Details connections for the Duplex Motor, Duplex Sensor, and Duplex Inverter. It includes a Duplex Inverter Gate and a Duplex Inverter Motor.

GDI Controller (PCB2): Shows connections for the GDI Controller, USB, and Network Interface Board (Option).

Tray Main Board (PCB1): Details connections for the Tray Main Board, including sensors (S1, S2, S3, S4, S5, S6, S7, S8, S9), actuators (M1, M2, M3, M4, M5, M6, M7, M8, M9, M10), and various switches (SW1, SW2, SW3, SW4, SW5, SW6, SW7, SW8, SW9, SW10, SW11, SW12, SW13, SW14, SW15, SW16, SW17, SW18, SW19, SW20, SW21, SW22, SW23, SW24, SW25, SW26, SW27, SW28, SW29, SW30, SW31, SW32, SW33, SW34, SW35, SW36, SW37, SW38, SW39, SW40, SW41, SW42, SW43, SW44, SW45, SW46, SW47, SW48, SW49, SW50, SW51, SW52, SW53, SW54, SW55, SW56, SW57, SW58, SW59, SW60, SW61, SW62, SW63, SW64, SW65, SW66, SW67, SW68, SW69, SW70, SW71, SW72, SW73, SW74, SW75, SW76, SW77, SW78, SW79, SW80, SW81, SW82, SW83, SW84, SW85, SW86, SW87, SW88, SW89, SW90, SW91, SW92, SW93, SW94, SW95, SW96, SW97, SW98, SW99, SW100, SW101, SW102, SW103, SW104, SW105, SW106, SW107, SW108, SW109, SW110, SW111, SW112, SW113, SW114, SW115, SW116, SW117, SW118, SW119, SW120, SW121, SW122, SW123, SW124, SW125, SW126, SW127, SW128, SW129, 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ELECTRICAL COMPONENT LAYOUT (B244/B268/B269/B276/B277)



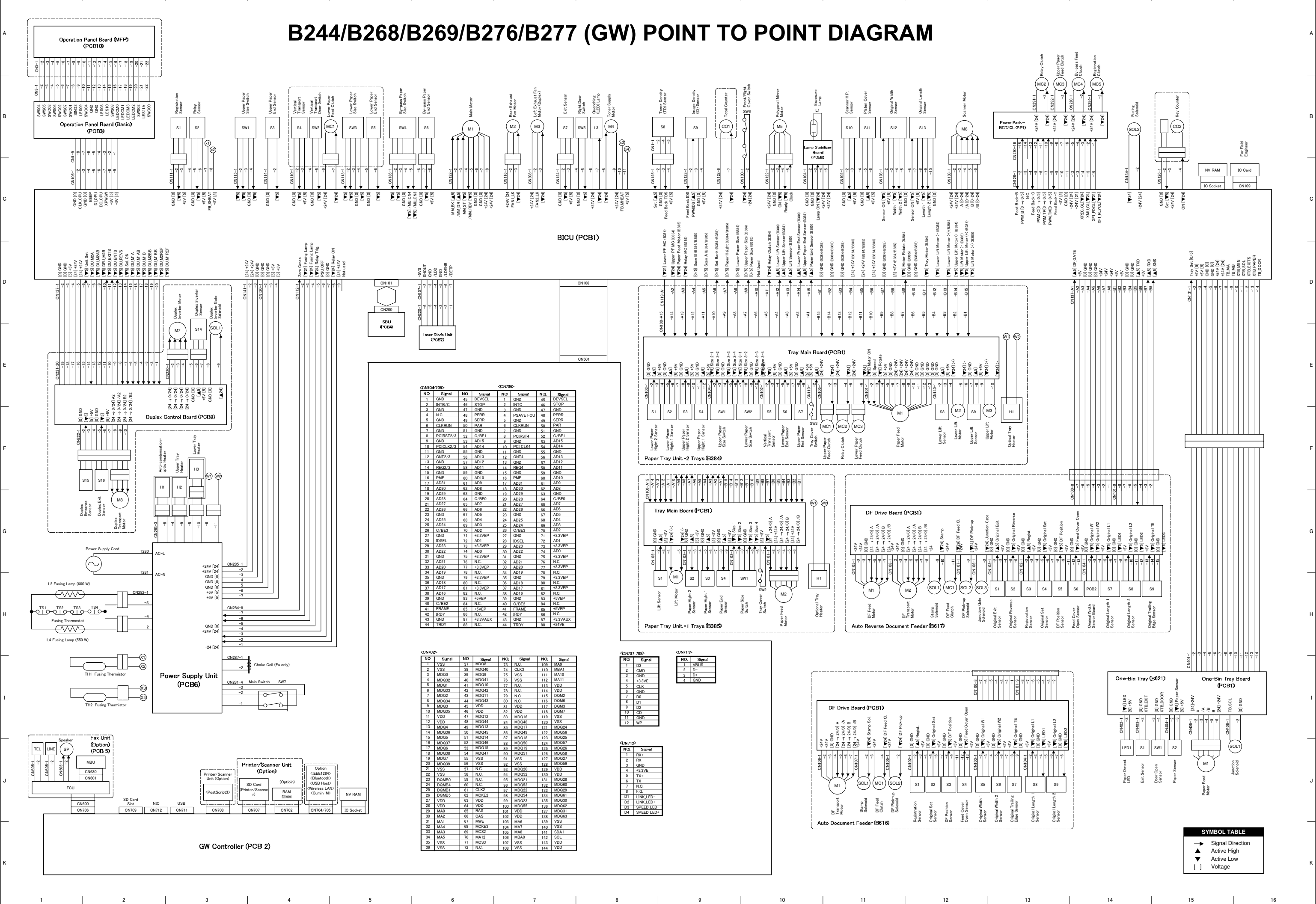
Symbol	Description	Index No.	P-to-P
Sensors			
S1	Registration	14	B3
S2	Relay	15	B3
S3	Upper Paper End	18	B4
S4	Vertical Transport	20	B4
S5	Lower Paper End	19	B5
S6	By-pass Paper End	17	B6
S7	Exit	13	B7
S8	Toner Density (TD)	52	B9
S9	Image Density (ID)	32	B9
S10	Scanner H.P.	2	B11
S11	Platen Cover	3	B11
S12	Original Width	4	B11
S13	Original Length	5	B12
S14	Duplex Inverter	53	E3
S15	Duplex Entrance	57	F2
S16	Duplex Exit	58	F2
Switches			
SW1	Upper Paper Size	23	B3

Symbol	Description	Index No.	P-to-P
SW2	Vertical Transport Door	21	B4
SW3	Lower Paper Size	22	B5
SW4	By-pass Paper Size	16	B5
SW5	Right Door	12	B8
SW6	Front/Right Cover	35	B10
SW7	Main	36	I4
Magnetic Clutches			
MC1	Lower Paper Feed	31	B5
MC2	Relay	30	B13
MC3	Upper Paper Feed	28	B13
MC4	By-pass Feed	29	B14
MC5	Registration	27	B14
Motors			
M1	Main	26	B6
M2	Rear Exhaust Fan	43	B7
M3	Left Exhaust Fan	38	B7
M4	Toner Supply	24	B8
M5	Polygonal Mirror	9	B10
M6	Scanner	6	B12

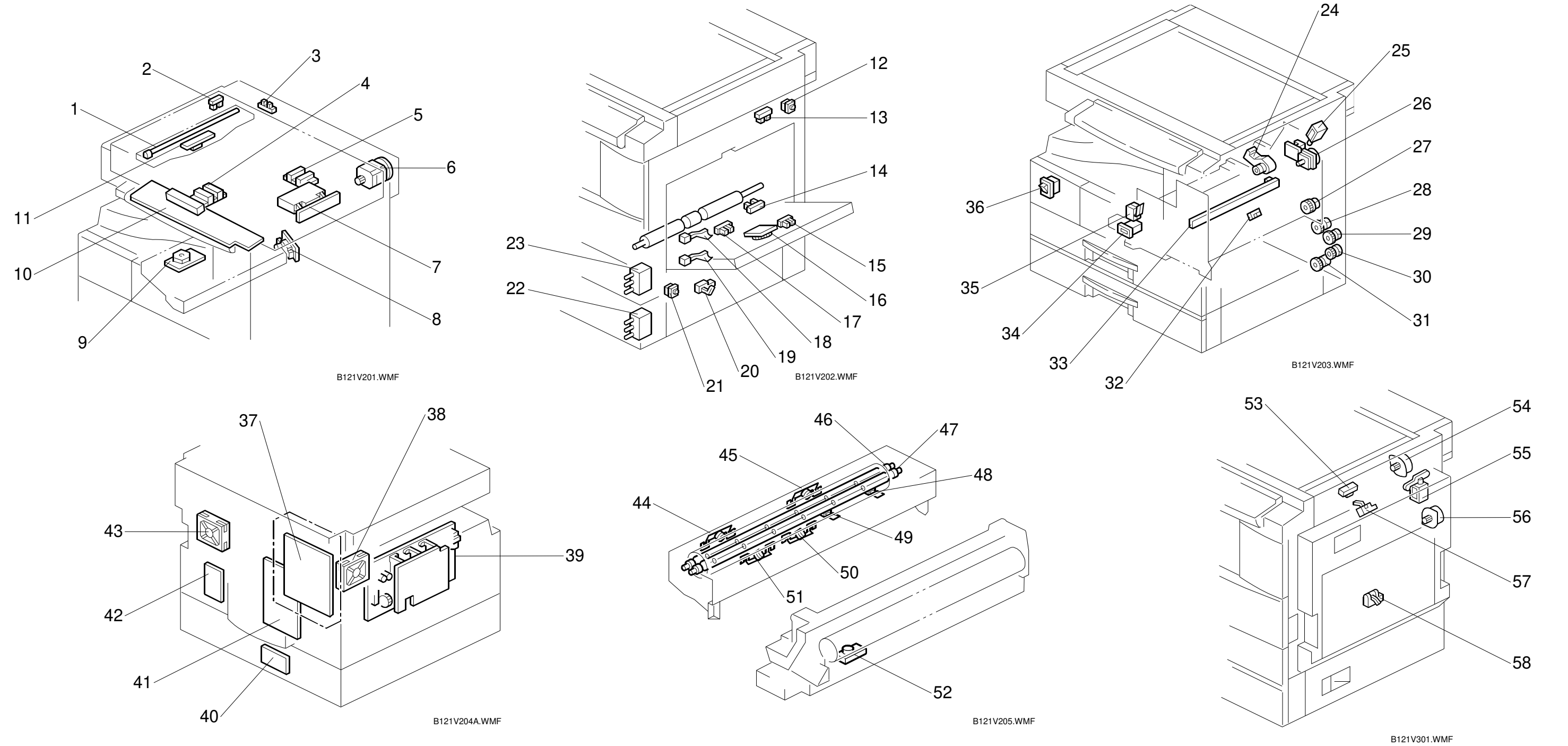
Symbol	Description	Index No.	P-to-P
M7	Duplex Inverter	54	E3
M8	Duplex Transport	56	G2
Lamps			
L1	Exposure	1	B10
L2	Fusing-1	46	H1
L3	Quenching (LED)	33	B8
L4	Fusing-2	47	H1
Counters			
CO1	Total	34	B9
CO2	Key (Option)	—	B15
Solenoids			
SOL1	Duplex Inverter Gate	55	E3
SOL2	Fusing	25	B14
Power Pack			
PP1	Power Pack-BCT/CL	42	B13
PCBs			
PCB1	BICU	41	C1-16
PCB2	GDI Controller	37	E8

Symbol	Description	Index No.	P-to-P
PCB3	Operation Panel Board (OPU) Basic	10	B1-2
PCB4	SBU	7	E5
PCB6	Power Supply Unit (PSU)	39	H3
PCB7	Laser Diode Unit (LDU)	8	E6
PCB8	Lamp Stabilizer Board	11	B10
PCB9	Duplex Control Board (DCB)	40	F1-3
PCB10	Operation Panel Board (OPU) MFP	10	A1-2
Heaters			
H1	Anti-condensation – Optic (Option)	—	F2
H2	Upper Tray (Option)	—	F3
H3	Lower Tray (Option)	—	F3
Others			
TH1	Fusing Thermistor	49	I2
TH2	Fusing Thermistor	48	I2
TS1	Fusing Thermostat	44	H1
TS2	Fusing Thermostat	45	H1
TS3	Fusing Thermostat	51	H1
TS4	Fusing Thermostat	50	H2

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
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ELECTRICAL COMPONENT LAYOUT (B244/B268/B269/B276/B277: GW)



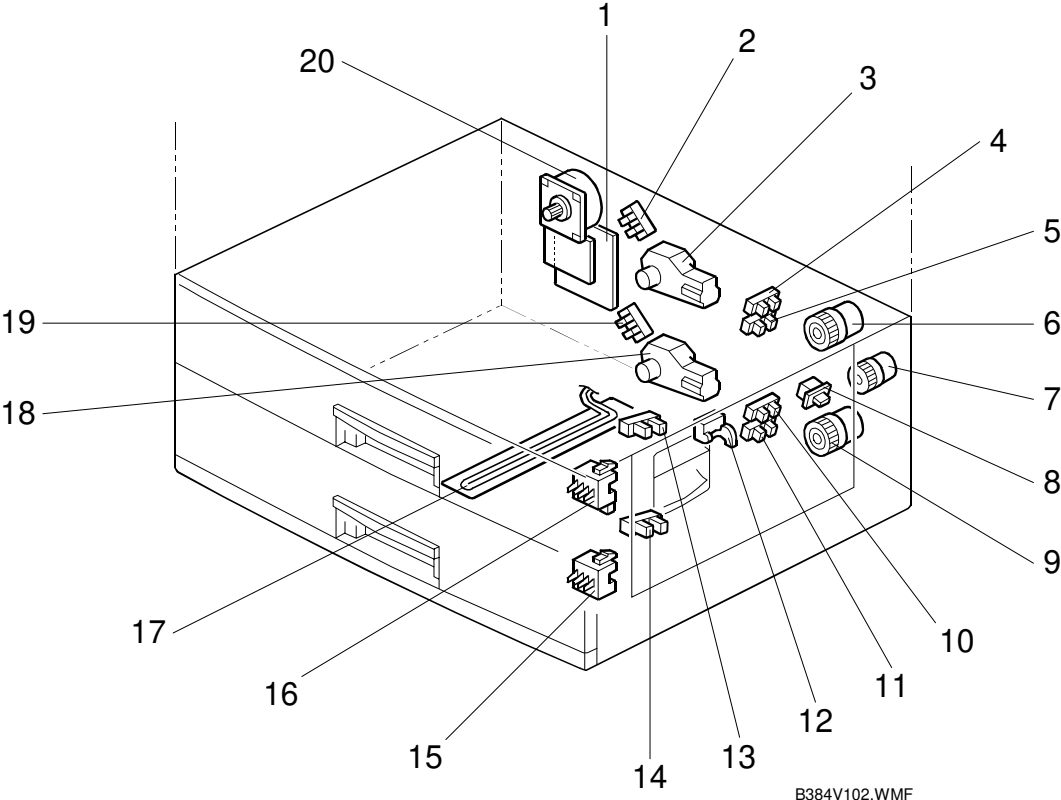
Symbol	Description	Index No.	P-to-P
Sensors			
S1	Registration	14	B3
S2	Relay	15	B3
S3	Upper Paper End	18	B4
S4	Vertical Transport	20	B4
S5	Lower Paper End	19	B5
S6	By-pass Paper End	17	B6
S7	Exit	13	B7
S8	Toner Density (TD)	52	B9
S9	Image Density (ID)	32	B9
S10	Scanner H.P.	2	B11
S11	Platen Cover	3	B11
S12	Original Width	4	B11
S13	Original Length	5	B12
S14	Duplex Inverter	53	E3
S15	Duplex Entrance	57	F2
S16	Duplex Exit	58	F2
Switches			
SW1	Upper Paper Size	23	B3

Symbol	Description	Index No.	P-to-P
SW2	Vertical Transport Door	21	B4
SW3	Lower Paper Size	22	B5
SW4	By-pass Paper Size	16	B5
SW5	Right Door	12	B8
SW6	Front/Right Cover	35	B10
SW7	Main	36	I4
Magnetic Clutches			
MC1	Lower Paper Feed	31	B5
MC2	Relay	30	B13
MC3	Upper Paper Feed	28	B13
MC4	By-pass Feed	29	B14
MC5	Registration	27	B14
Motors			
M1	Main	26	B6
M2	Rear Exhaust Fan	43	B7
M3	Left Exhaust Fan	38	B7
M4	Toner Supply	24	B8
M5	Polygonal Mirror	9	B10
M6	Scanner	6	B12

Symbol	Description	Index No.	P-to-P
M7	Duplex Inverter	54	E3
M8	Duplex Transport	56	G2
Lamps			
L1	Exposure	1	B10
L2	Fusing-1	46	H1
L3	Quenching (LED)	33	B8
L4	Fusing-2	47	H1
Counters			
CO1	Total	34	B9
CO2	Key (Option)	—	B15
Solenoids			
SOL1	Duplex Inverter Gate	55	E3
SOL2	Fusing	25	B14
Power Pack			
PP1	Power Pack-BCT/CL	42	B13
PCBs			
PCB1	BICU	41	C1-16
PCB2	GW Controller	37	E8

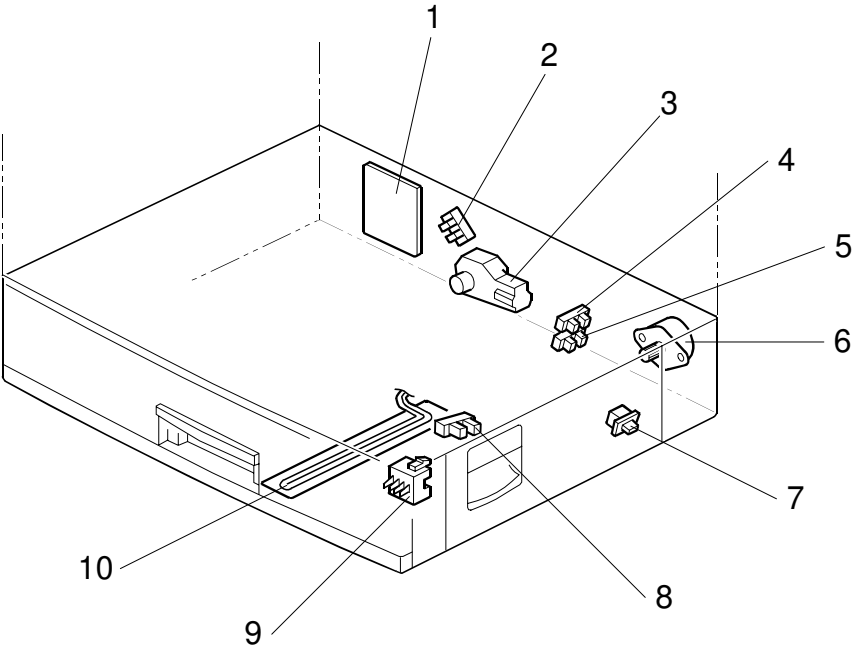
Symbol	Description	Index No.	P-to-P
PCB3	Operation Panel Board (OPU) Basic	10	B1-2
PCB4	SBU	7	E5
PCB5	FAX Unit (Option)	—	J1
PCB6	Power Supply Unit (PSU)	39	H3
PCB7	Laser Diode Unit (LDU)	8	E6
PCB8	Lamp Stabilizer Board	11	B10
PCB9	Duplex Control Board (DCB)	40	F1-3
PCB10	Operation Panel Board (OPU) MFP	10	A1-2
Heaters			
H1	Anti-condensation – Optic (Option)	—	F2
H2	Upper Tray (Option)	—	F3
H3	Lower Tray (Option)	—	F3
Others			
TH1	Fusing Thermistor	49	I2
TH2	Fusing Thermistor	48	I2
TS1	Fusing Thermostat	44	H1
TS2	Fusing Thermostat	45	H1
TS3	Fusing Thermostat	51	H1
TS4	Fusing Thermostat	50	H2

ELECTRICAL COMPONENT LAYOUT (B384)



Symbol	Name	Index No.	P-to-P
Motors			
M1	Paper Feed	20	E11
M2	Lower Lift	18	E12
M3	Upper Lift	3	E13
Sensors			
S1	Lower Paper Height 2	10	E8
S2	Lower Paper Height 1	11	E9
S3	Upper Paper Height 2	4	E9
S4	Upper Paper Height 1	5	E9
S5	Vertical Transport	12	E10
S6	Lower Paper End	14	E10
S7	Upper Paper End	13	E10
S8	Lower Lift	19	E12
S9	Upper Lift	2	E12
Switches			
SW1	Upper Paper Size	16	E9
SW2	Lower Paper Size	15	E10
SW3	Tray Cover	8	E10
Magnetic Clutches			
MC1	Upper Paper Feed	6	E11
MC2	Relay	7	E11
MC3	Lower Paper Feed	9	E11
PCBs			
PCB1	Tray Main	1	E9-13
Others			
H1	Optional Tray Heater	17	E13

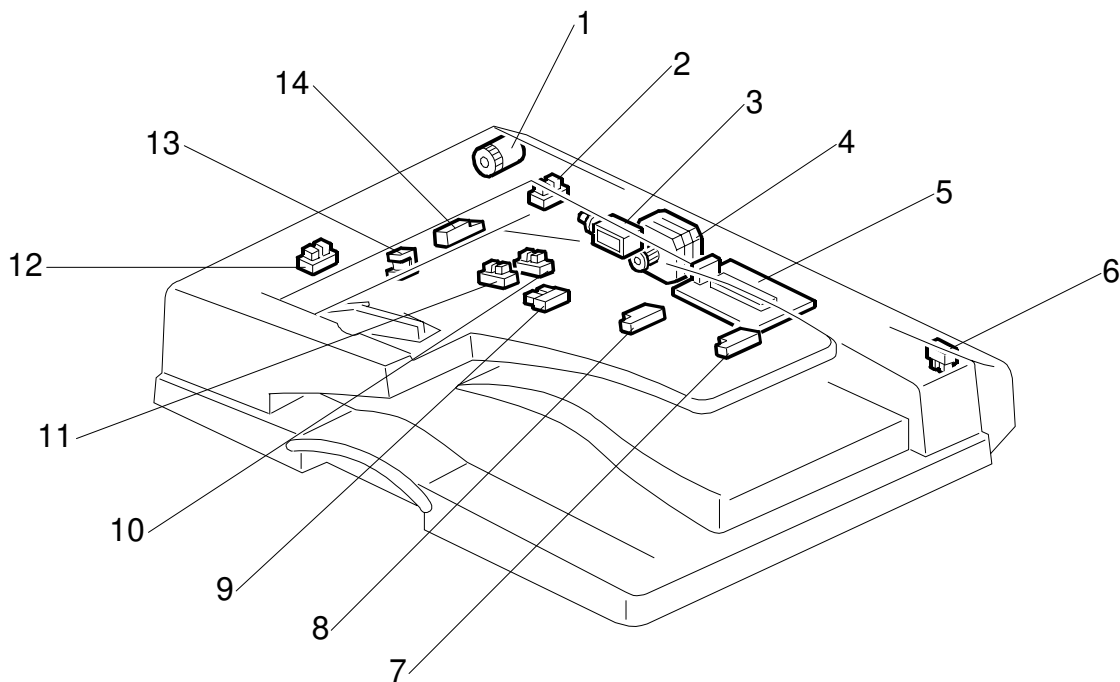
ELECTRICAL COMPONENT LAYOUT (B385)



B385V102.WMF

Symbol	Name	Index No.	P-to-P
Motors			
M1	Lift	3	H9
M2	Paper Feed	6	H10
Sensors			
S1	Lift	2	H9
S2	Paper Height 2	4	H9
S3	Paper Height 1	5	H9
S4	Paper End	8	H9
Switches			
SW1	Paper Size	9	H10
SW2	Tray Cover	7	H10
PCBs			
PCB1	Tray Main	1	G9-10
Others			
H1	Optional Tray Heater	10	H11

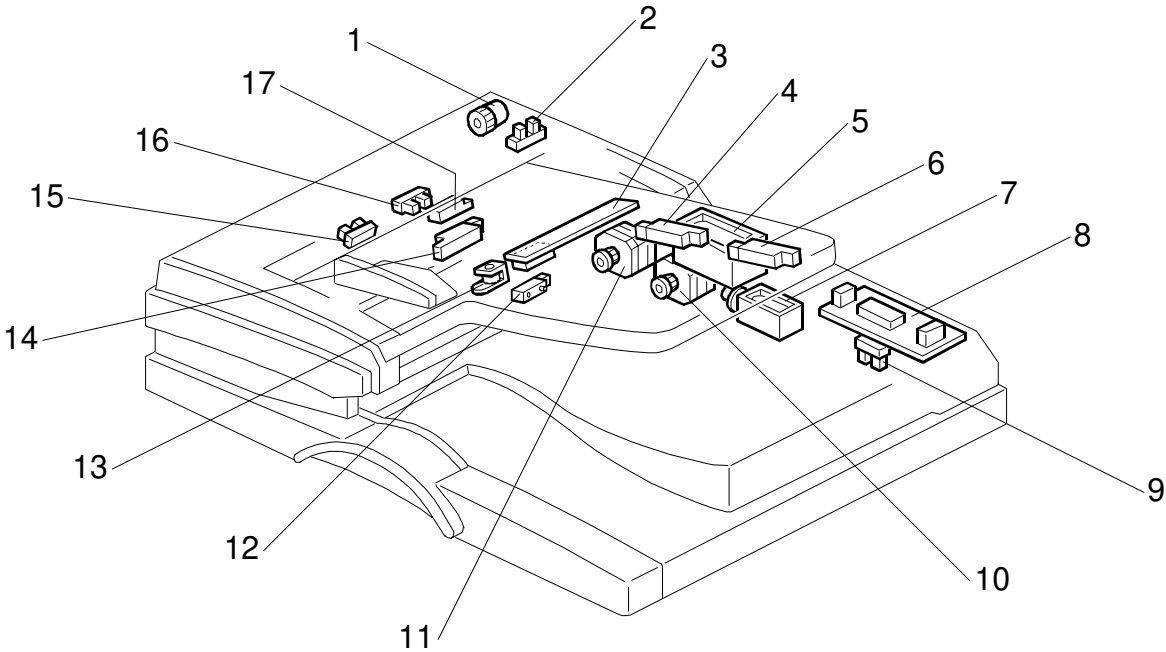
ELECTRICAL COMPONENT LAYOUT (B813)



B616E101.WMF

Symbol	Name	Index No.	P-to-P
Motors			
M1	DF Transport	4	J11
Sensors			
S1	Registration	14	J12
S2	Original Set	12	J12
S3	DF Position	6	J12
S4	Feed Cover Open	2	J12
S5	Original Width 1	10	J12
S6	Original Width 2	11	J13
S7	Original Trailing Edge	9	J13
S8	Original Length 1	7	J13
S9	Original Length 2	8	J13
Solenoids			
SOL1	Stamp	13	J11
SOL2	DF Pick-up	3	J11
Magnetic Clutches			
MC1	DF Feed	1	J11
PCBs			
PCB1	DF Drive	5	I11-13

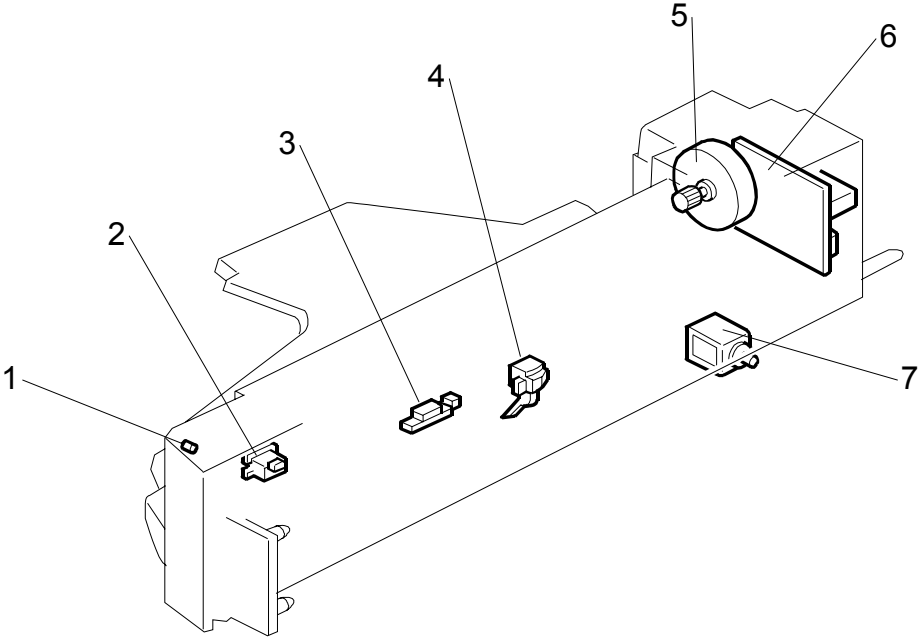
ELECTRICAL COMPONENT LAYOUT (B814)



B617E202.WMF

Symbol	Name	Index No.	P-to-P
Motors			
M1	DF Feed	10	H11
M2	DF Transport	11	H12
Sensors			
S1	Original Exit	12	H13
S2	Original Reverse	16	H13
S3	Registration	17	H13
S4	Original Set	15	H13
S5	DF Position	9	H13
S6	Feed Cover Open	2	H14
S7	Original Length - 1	4	H14
S8	Original Length - 2	6	H14
S9	Original Trailing Edge	14	H15
Solenoids			
SOL1	Stamp	13	H12
SOL2	DF Pick-up	5	H12
SOL3	Junction Gate	7	H12
Magnetic Clutches			
MC1	DF Feed	1	H12
PCBs			
PCB1	DF Drive Board	8	G11-15
PCB2	Original Width Sensor Board	3	H14

ELECTRICAL COMPONENT LAYOUT (B621)



B621D902.WMF

Symbol	Name	Index No.	P-to-P
Motors			
M1	Paper Feed Motor	5	J15
Sensors			
S1	Exit	4	J14
S2	Paper	3	J15
Switches			
Sw1	Door Open	2	J15
Solenoids			
SOL1	Junction	7	J16
PCBs			
PCB1	One-bin Tray Board	6	I14-16
LEDs			
LED1	Paper Detect	1	J14