



B146/B147/B148/B149 ELECTRICAL COMPONENT LAYOUT (1/2)

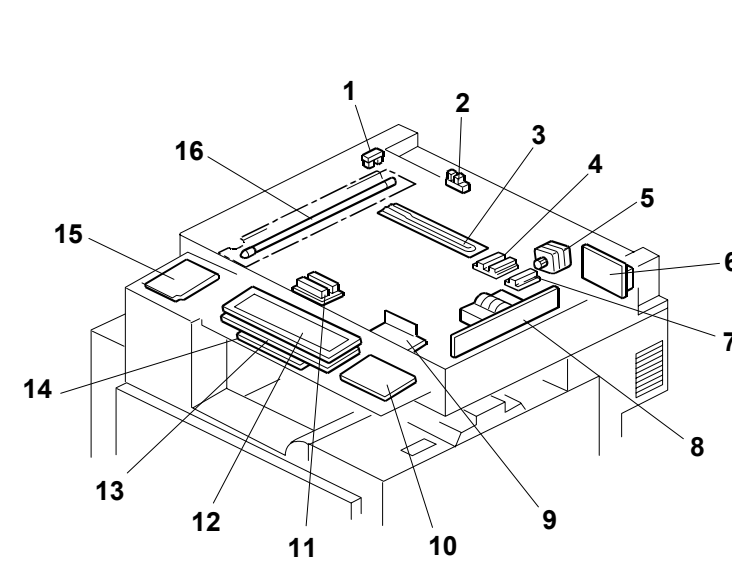


Fig. 1

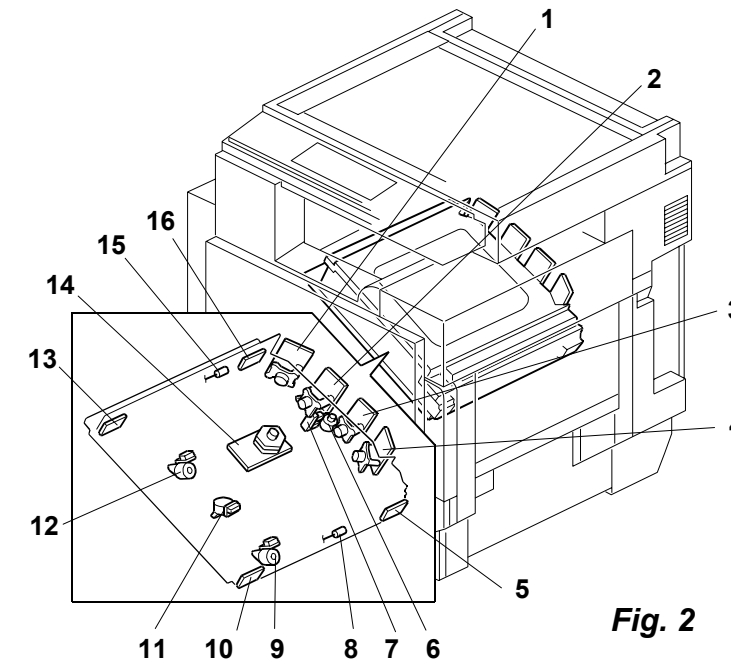


Fig. 2

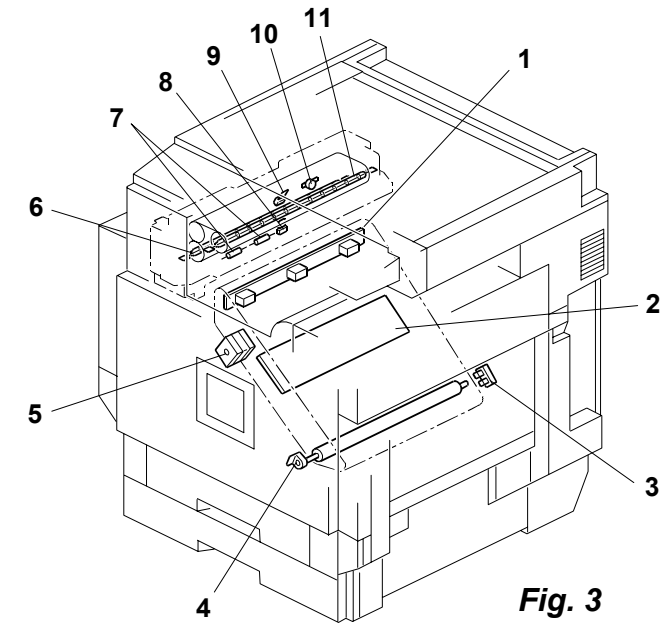


Fig. 3

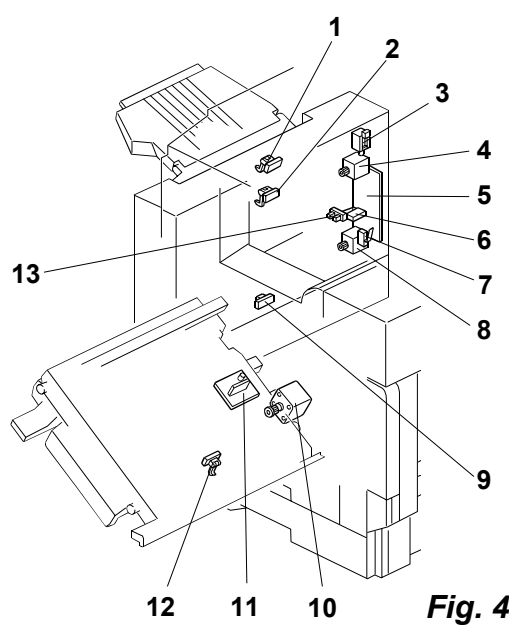


Fig. 4

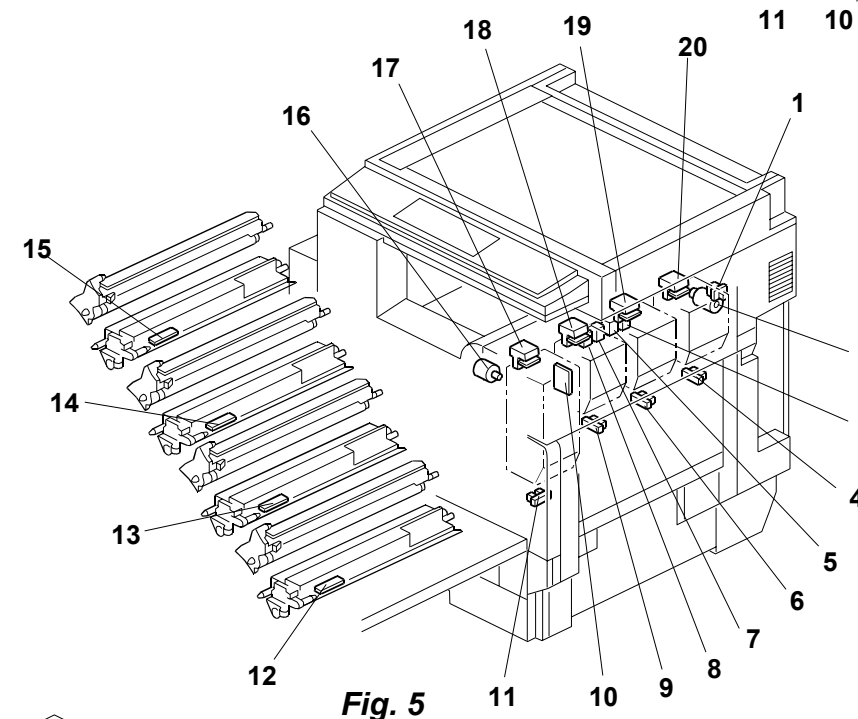


Fig. 5

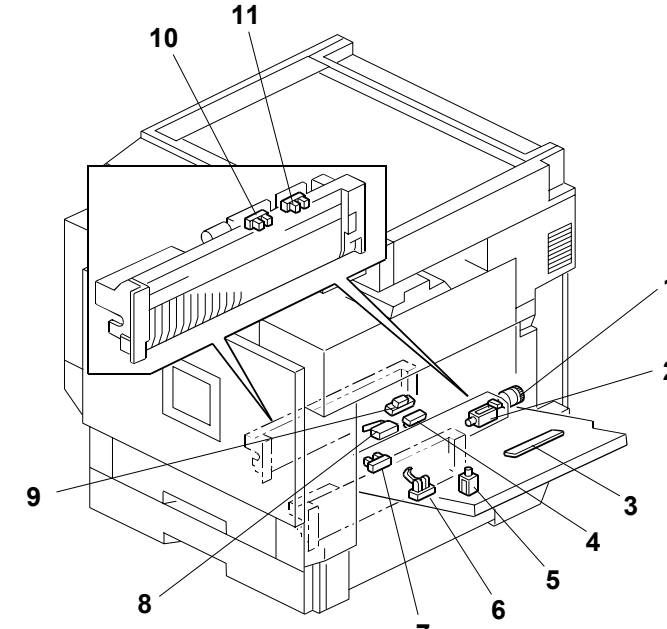


Fig. 6

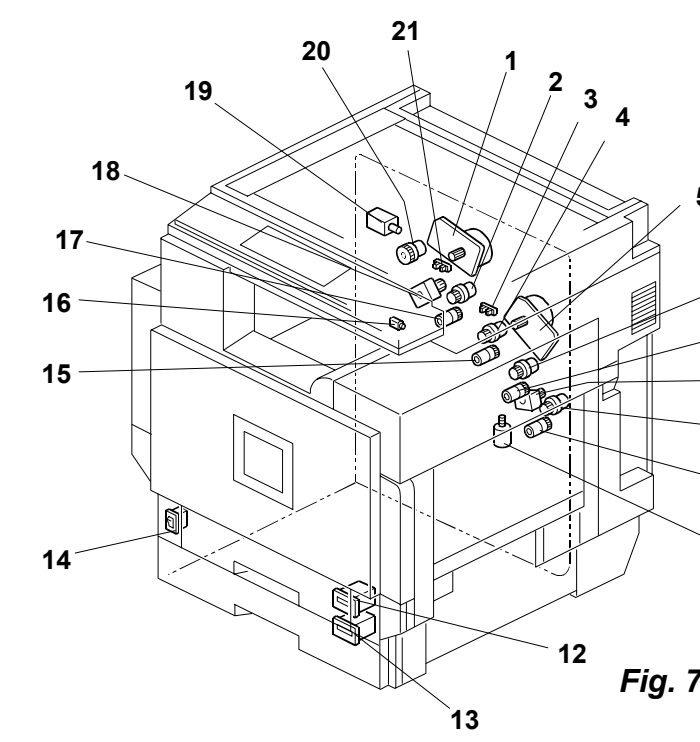


Fig. 7

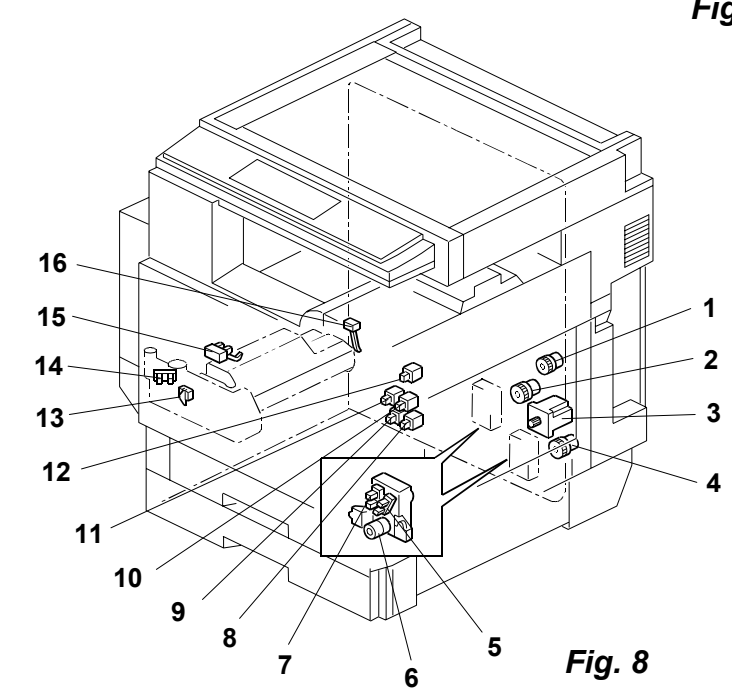


Fig. 8

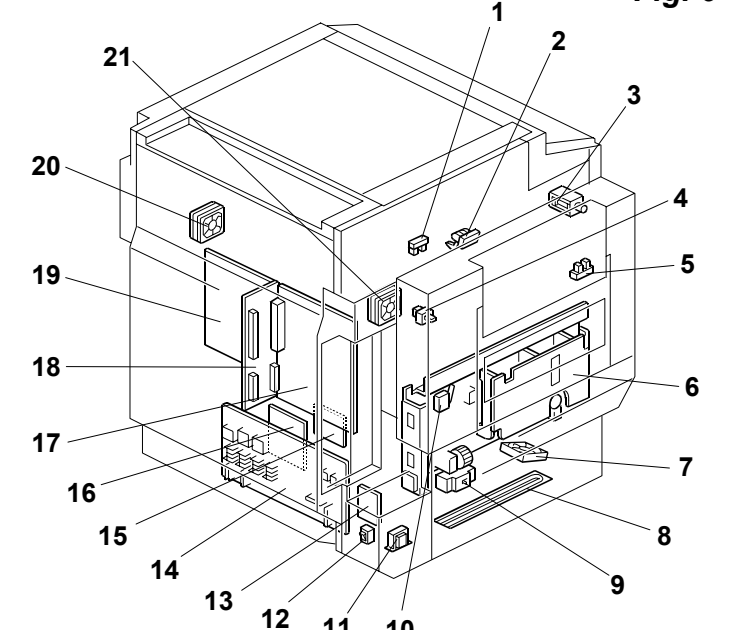


Fig. 9

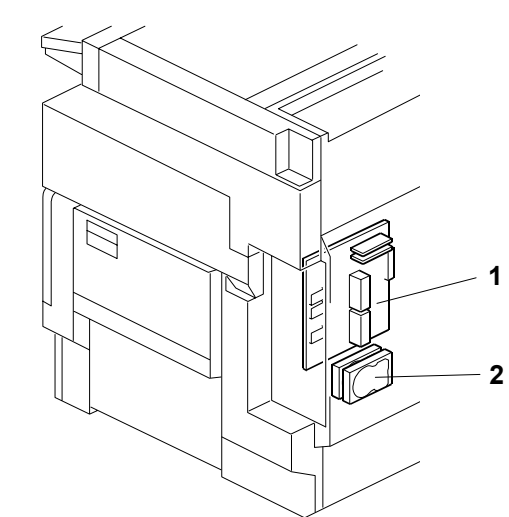


Fig. 10

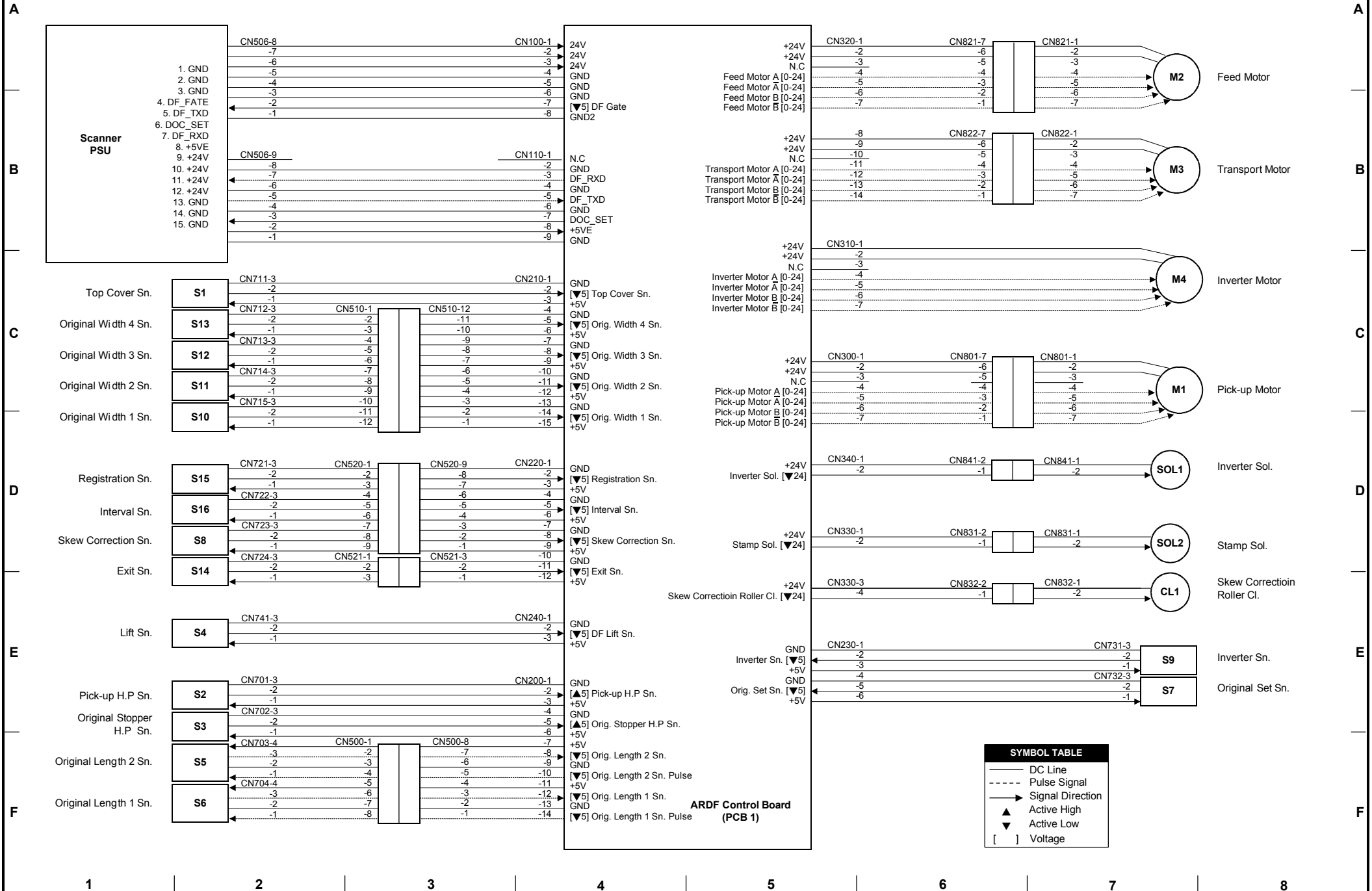
B146/B147/B148/B149 ELECTRICAL COMPONENT LAYOUT (2/2)

Symbol	Description	Index No.	P-to-P
Printed Circuit Boards			
PCB1	LD Unit-Y	2-1	G16(1/2)
PCB2	LD Unit-K	2-2	G15(1/2)
PCB3	LD Unit-M	2-3	G14(1/2)
PCB4	LD Unit-C	2-4	G14(1/2)
PCB5	Laser Synchronizing Detector Board-MC – S	2-5	E14(1/2)
PCB6	Laser Synchronizing Detector Board-MC – E	2-10	E14(1/2)
PCB7	Laser Synchronizing Detector Board-YK – S	2-13	E16(1/2)
PCB8	Laser Synchronizing Detector Board-YK – E	2-16	E15(1/2)
PCB9	Memory Chip – K	5-17	J7(1/2)
PCB10	Memory Chip – Y	5-18	H11(1/2)
PCB11	Memory Chip – C	5-19	H11(1/2)
PCB12	Memory Chip – M	5-20	H10(1/2)
PCB13	High Voltage Supply Board - Transfer	3-2	F8(1/2)
PCB14	Paper Width Detection Board	6-3	J6(1/2)
PCB15	PSU (Power Supply Unit)	9-6	B6(1/2)
PCB16	DRB	9-15	G5(1/2)
PCB17	High Voltage Supply Board - C, B	9-14	G9(1/2)
PCB18	BCU	9-17	I9(1/2)
PCB19	Controller	10-1	E5(2/2)
PCB20	SUB PSU	9-16	B3(1/2)
PCB21	SBU	1-8	A4(2/2)
PCB22	IPU	9-19	B5(2/2)
PCB23	Scanner I/O Board	1-6	D4(2/2)
PCB24	LCD Controller	1-12	E2(2/2)
PCB25	Operation Panel Board - Right	1-10	D2(2/2)
PCB26	Operation Panel Board - Left	1-15	F2(2/2)
PCB27	LCD	1-13	E1(2/2)
PCB28	Touch Panel	1-14	E1(2/2)
PCB29	Mother Board	9-18	C6(2/2)
PCB30	Lamp Stabilizer	1-9	D2(2/2)
PCB31	Duplex Control Board	4-5	C10(1/2)
PCB32	Duplex Drive Board	4-11	B10(1/2)
PCB33	Transfer Rotation Encoder	3-4	F7(1/2)
PCB34	HDD	10-2	F5(2/2)
PCB35	CSS Board (Option)	9-13	C7(2/2)
Motors			
M1	LD Positioning Motor	2-6	G13(1/2)
M2	3rd Mirror Positioning Motor-M	2-9	G12(1/2)
M3	3rd Mirror Positioning Motor-C	2-11	G12(1/2)
M4	3rd Mirror Positioning Motor-Y	2-12	G12(1/2)
M5	Polygon Motor	2-14	G12(1/2)
M6	Air Pump – CK	5-16	J8(1/2)
M7	Air Pump – MY	5-2	J8(1/2)
M8	Transfer Unit Drive Motor	3-5	F7(1/2)
M9	Development Drive Motor-CMY	7-5	G6(1/2)
M10	Drum Drive Motor-CMY	7-8	H6(1/2)
M11	Paper Feed Motor	8-3	H5(1/2)
M12	Transfer Belt Contact Motor	7-11	J8(1/2)
M13,14	Tray Lift Motor	8-6	J12(1/2)
M15	Drum Drive Motor-K	7-18	H5(1/2)
M16	Development Drive Motor-K	7-1	F6(1/2)
M17	PSU Cooling Fan Motor	9-7	E2(1/2)
M18	Laser Optics Housing Cooling Fan Motor	9-20	J9(1/2)
M19	Fusing Fan Motor	9-21	E2(1/2)
M20	Waste Toner Vibration Motor	7-16	J4(1/2)
M21	Scanner Drive Motor	1-5	C3(2/2)
M22	Duplex Inverter Motor 1	4-4	D10(1/2)
M23	Duplex Inverter Motor 2	4-8	D9(1/2)
M24	Duplex Feed Motor	4-10	A11(1/2)

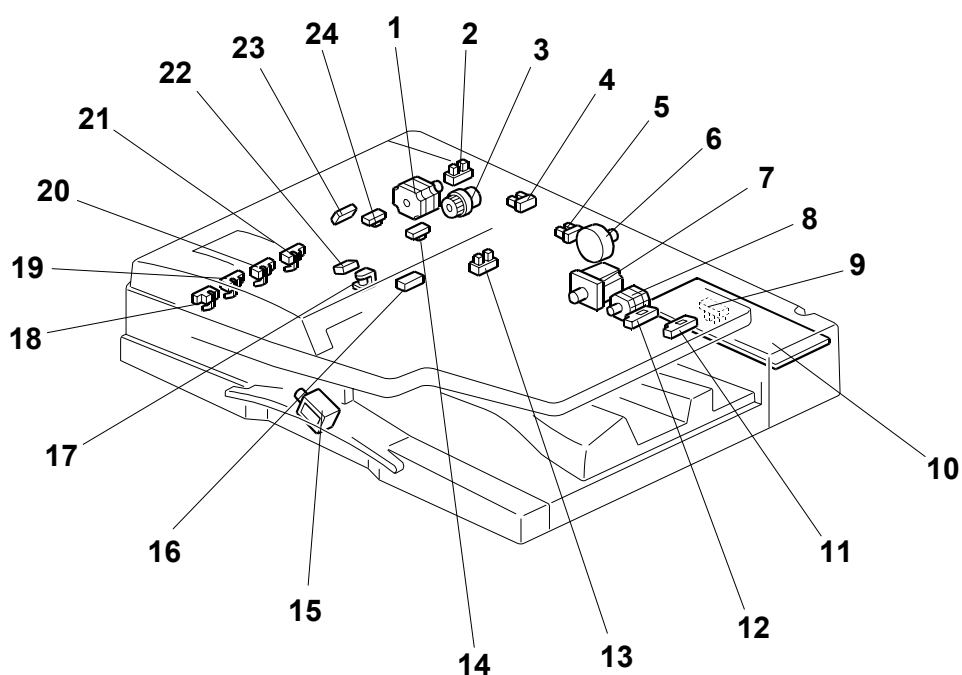
Symbol	Description	Index No.	P-to-P
Sensors			
S1	LD H.P. Sensor	2-7	G13(1/2)
S2	Toner End Sensor – M	5-4	J11(1/2)
S3	Toner End Sensor – C	5-6	J11(1/2)
S4	Toner End Sensor – Y	5-9	J11(1/2)
S5	Humidity Sensor	5-10	J16(1/2)
S6	Toner End Sensor – K	5-11	J6(1/2)
S7	TD Sensor – M	5-12	J7(1/2)
S8	TD Sensor – C	5-13	J5(1/2)
S9	TD Sensor – Y	5-14	J4(1/2)
S10	TD Sensor – K	5-15	J4(1/2)
S11	ID Sensor	3-1	G8(1/2)
S12	Transfer Belt Sensor	3-3	J5(1/2)
S13	Relay Sensor	6-4	J15(1/2)
S14	Vertical Transport Sensor	6-6	J10(1/2)
S15	By-pass Paper End Sensor	6-7	J6(1/2)
S16	Registration Sensor	6-9	J7(1/2)
S17,18	Paper End Sensor	6-10	J15, J16(1/2)
S19,20	Paper Lift Sensor	6-11	J15, J16(1/2)
S21	Tray 1 Paper Height Sensor 2	8-5	J12(1/2)
S22	Tray 2 Paper Height Sensor 2	8-5	J9(1/2)
S23	Tray 1 Paper Height Sensor 1	8-7	J11(1/2)
S24	Tray 2 Paper Height Sensor 1	8-7	J12(1/2)
S25	Waste Oil Bottle Set Sensor	8-13	E2(1/2)
S26	Waste Oil Sensor	8-14	E2(1/2)
S27	Waste Toner Sensor	8-15	J3(1/2)
S28	Drum Gear Position Sensor - K	7-21	J3(1/2)
S29	Drum Gear Position Sensor - CMY	7-3	J5(1/2)
S30	Fusing Exit Sensor	9-5	D2(1/2)
S31	Paper Exit Sensor	9-1	E2(1/2)
S32	Paper Overflow Sensor	9-2	D2(1/2)
S33	Original Width Sensor	1-11	A3(2/2)
S34	Original Length Sensor 1	1-4	A3(2/2)
S35	Original Length Sensor 2	1-7	B3(2/2)
S36	Scanner H.P. Sensor	1-1	A3(2/2)
S37	Platen Cover Sensor	1-2	C3(2/2)
S38	Duplex Exit Sensor 1	4-1	D11(1/2)
S39	Duplex Feed Sensor	4-12	B11(1/2)
S40	Duplex Inverter Sensor	4-9	D11(1/2)
S41	Duplex Exit Sensor 2	4-2	D11(1/2)
S42	Duplex Exit Sensor 3	4-13	D11(1/2)
Switches			
SW1	Right Door Switch	5-1	J15(1/2)
SW2	Vertical Transport Switch	6-8	E6(1/2)
SW3	Tray 2 Paper Size Switch – 4	8-8	J11(1/2)
SW4	Tray 2 Paper Size Switch – 2	8-9	J11(1/2)
SW5	Tray 2 Paper Size Switch – 3	8-10	J11(1/2)
SW6	Tray 2 Paper Size Switch – 1	8-11	J11(1/2)
SW7	Tray 1 Set Switch	8-12	J15(1/2)
SW8	Waste Toner Bottle Set Switch	8-16	J3(1/2)
SW9	Left Door Switch	9-4	D2(1/2)
SW10	Main Switch	7-14	D6(1/2)
SW11	Front Door and Left Door Switch	9-10	A6(1/2)
SW12	Anti-condensation Heater Switch (Option)	9-12	D6(1/2)
SW13	Duplex Door Switch	4-6	D10(1/2)
SW14	Duplex Inverter Unit Switch	4-7	D10(1/2)

Symbol	Description	Index No.	P-to-P
Clutches			
CL1	By-pass Feed Clutch	6-1	J6(1/2)
CL2	Development Clutch-C	7-6	J3(1/2)
CL3	Toner Supply Clutch-C	7-7	J5(1/2)
CL4	Development Clutch-M	7-9	J7(1/2)
CL5	Toner Supply Clutch-M	7-10	J7(1/2)
CL6	Registration Clutch	8-1	J10(1/2)
CL7	Tray 1 Paper Feed Clutch	8-2	J10(1/2)
CL8	Tray 2 Paper Feed Clutch	8-4	J10(1/2)
CL9	Toner Supply Clutch-Y	7-15	J5(1/2)
CL10	Development Clutch-Y	7-4	J3(1/2)
CL11	Toner Supply Clutch-K	7-17	J5(1/2)
CL12	Fusing Clutch	7-20	F2(1/2)
CL13	Development Clutch-K	7-2	J3(1/2)
Solenoids			
SOL1	Air Flow Valve Solenoid – M	5-3	J9(1/2)
SOL2	Air Flow Valve Solenoid – C	5-5	J9(1/2)
SOL3	Air Flow Valve Solenoid – Y	5-7	J9(1/2)
SOL4	Air Flow Valve Solenoid – K	5-8	J10(1/2)
SOL5	By-pass Pick-up Solenoid	6-2	J6(1/2)
SOL6	Grip Roller Release Solenoid	6-5	J10(1/2)
SOL7	Exit Junction Gate Solenoid	7-19	F2(1/2)
SOL8	Oil Supply Unit Solenoid	9-3	F2(1/2)
SOL9	Duplex Junction Gate Solenoid	4-3	D10(1/2)
Lamps			
L1	Pressure Roller Fusing Lamp	3-6	C1(1/2)
L2	Heating Roller Fusing Lamp	3-11	C1(1/2)
L3	Exposure Lamp	1-16	D2(2/2)
Thermistors			
TH1	Thermistor 2	2-8	G13(1/2)
TH2	Thermistor 1	2-15	G13(1/2)
TH3	Pressure Roller Thermistor	3-8	C1(1/2)
TH4	Heating Roller Thermistor	3-9	C1(1/2)
Thermofuse/Stat			
THO1	Pressure Roller Thermofuse	3-7	C2(1/2)
THO2	Heating Roller Thermostat	3-10	C2(1/2)
Others			
CO1	Mechanical Counter 1	7-12	G2(1/2)
CO2	Mechanical Counter 2	7-13	H2(1/2)
CB1	Earth Leakage Circuit Breaker	9-9	A8(1/2)
CC1	Choke Coil	9-11	A8(1/2)
H1	Anti-condensation Heater - Tray (Option)	9-8	D6(1/2)
H2	Anti-condensation Heater - Scanner (Option)	1-3	E6(1/2)

ARDF (B597) POINT TO POINT DIAGRAM



ARDF (B597) ELECTRICAL COMPONENT LAYOUT

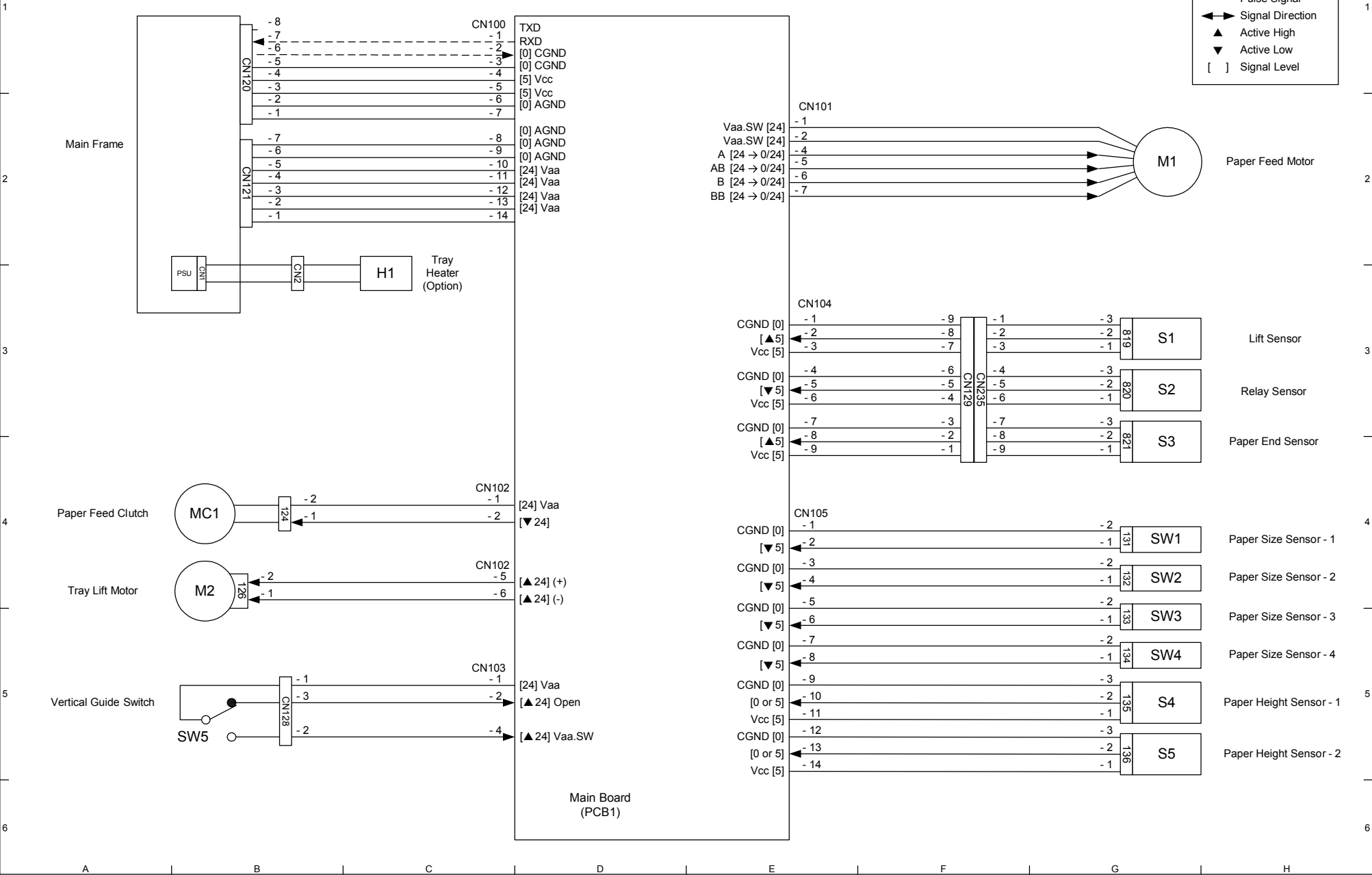


ELECTRICAL COMPONENT DESCRIPTION

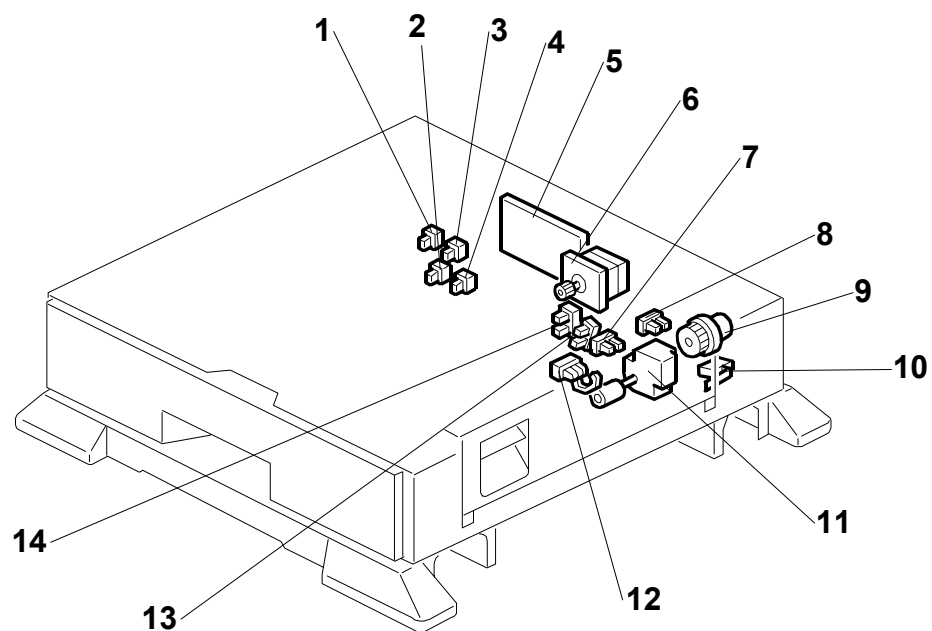
Symbol	Name	Index No.	P to P
Motors			
M1	Pick-up	6	C7
M2	Feed	1	A7
M3	Transport	7	B7
M4	Inverter	8	C7
Sensors			
S1	Top cover	2	C2
S2	Pick-up HP	4	E2
S3	Original stopper HP	5	E2
S4	Lift	9	E2
S5	Original length 2	11	F2
S6	Original length 1	12	F2
S7	Original set	13	E7
S8	Skew correction	14	D2
S9	Inverter	16	E7
S10	Original Width 1	21	D2
S11	Original Width 2	20	C2
S12	Original Width 3	19	C2
S13	Original Width 4	18	C2
S14	Exit	22	E2
S15	Registration	23	D2
S16	Interval	24	D2
Solenoid			
SOL1	Inverter	15	D7
SOL2	Stamp	17	D7
Electrical Clutch			
CL1	Skew correction roller	3	E7
PCB			
PCB1	ARDF control board	10	F5

ONE-TRAY PAPER FEED UNIT (B601) POINT TO POINT DIAGRAM

Symbol Table	
	DC Line
	Pulse Signal
	Signal Direction
	Active High
	Active Low
[]	Signal Level



ONE-TRAY PAPER FEED UNIT (B601) ELECTRICAL COMPONENT LAYOUT

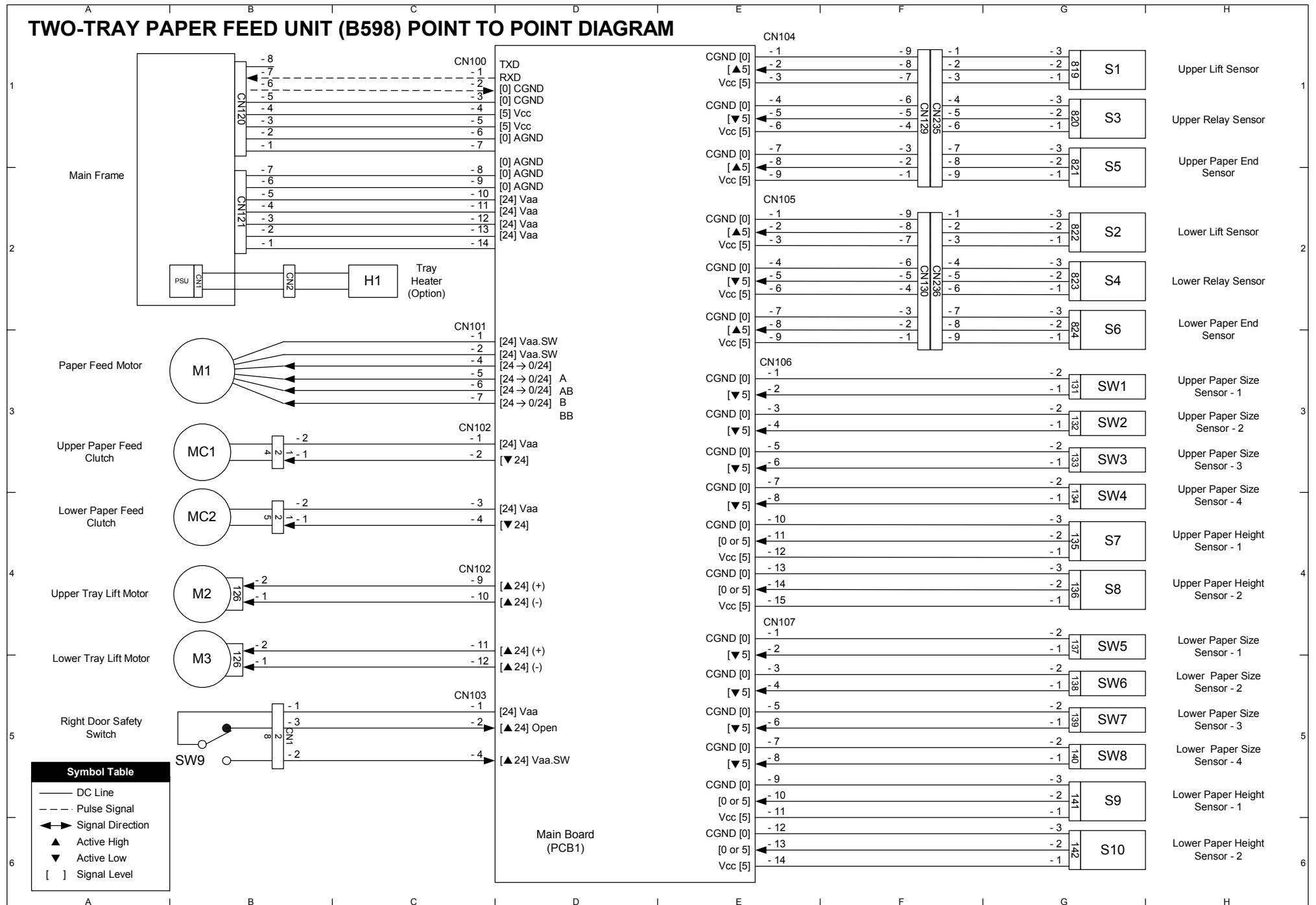


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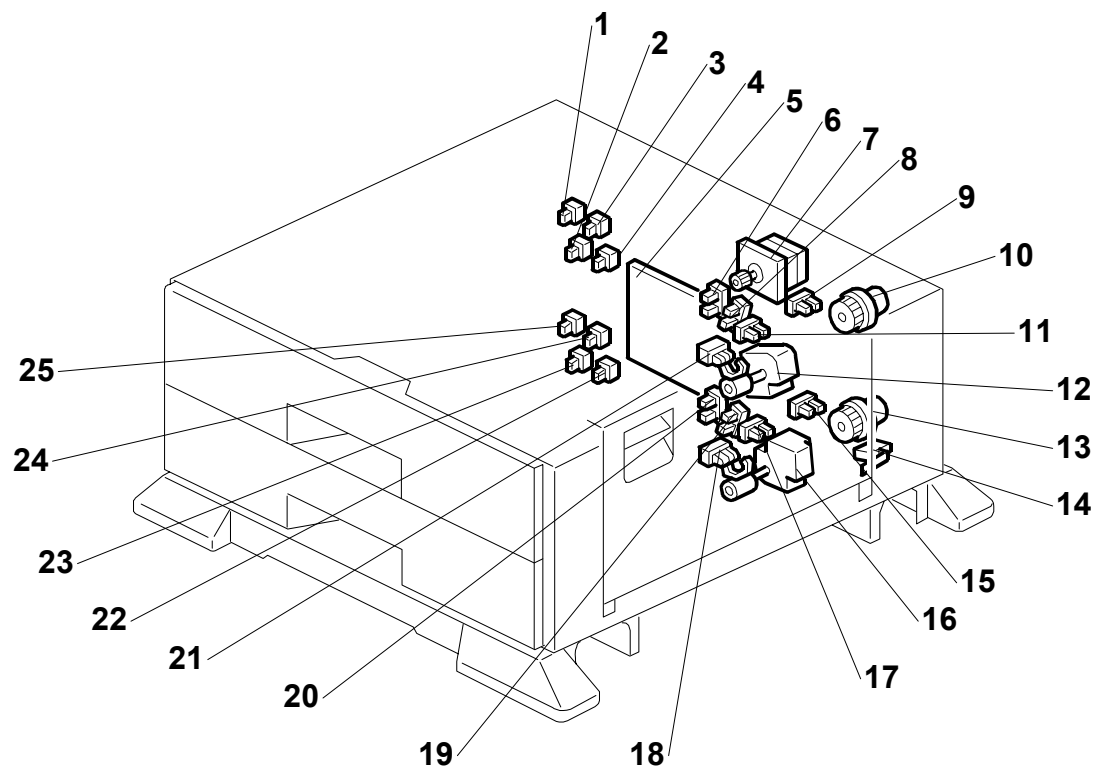
ELECTRICAL COMPONENT DESCRIPTION (B601)

Symbol	Description	Index No.	P-to-P
Motors			
M1	Paper Feed	6	G2
M2	Tray Lift	11	B4
Sensors			
S1	Lift	8	G3
S2	Relay	12	G3
S3	Paper End	7	G4
S4	Paper Height 1	14	G5
S5	Paper Height 2	13	G5
Switches			
SW1	Paper Size 1	1	G4
SW2	Paper Size 2	2	G4
SW3	Paper Size 3	3	G5
SW4	Paper Size 4	4	G5
SW5	Vertical Guide	10	B5
Magnetic Clutches			
MC1	Paper Feed	9	B4
PCBs			
PCB1	Main	5	D6
Heaters			
H1	Tray Heater (Option)	-	C2

TWO-TRAY PAPER FEED UNIT (B598) POINT TO POINT DIAGRAM



TWO-TRAY PAPER FEED UNIT (B598) ELECTRICAL COMPONENT LAYOUT

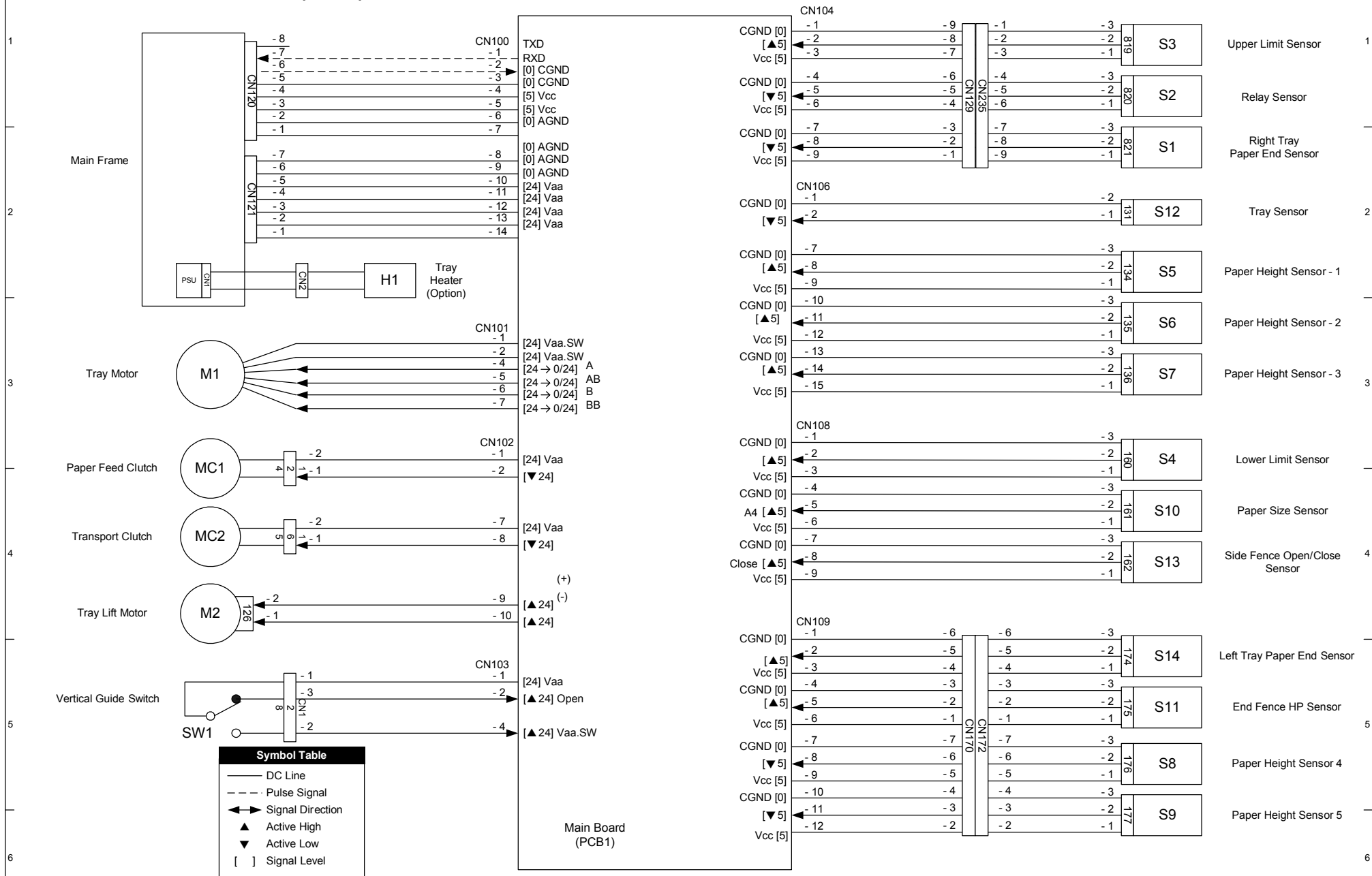


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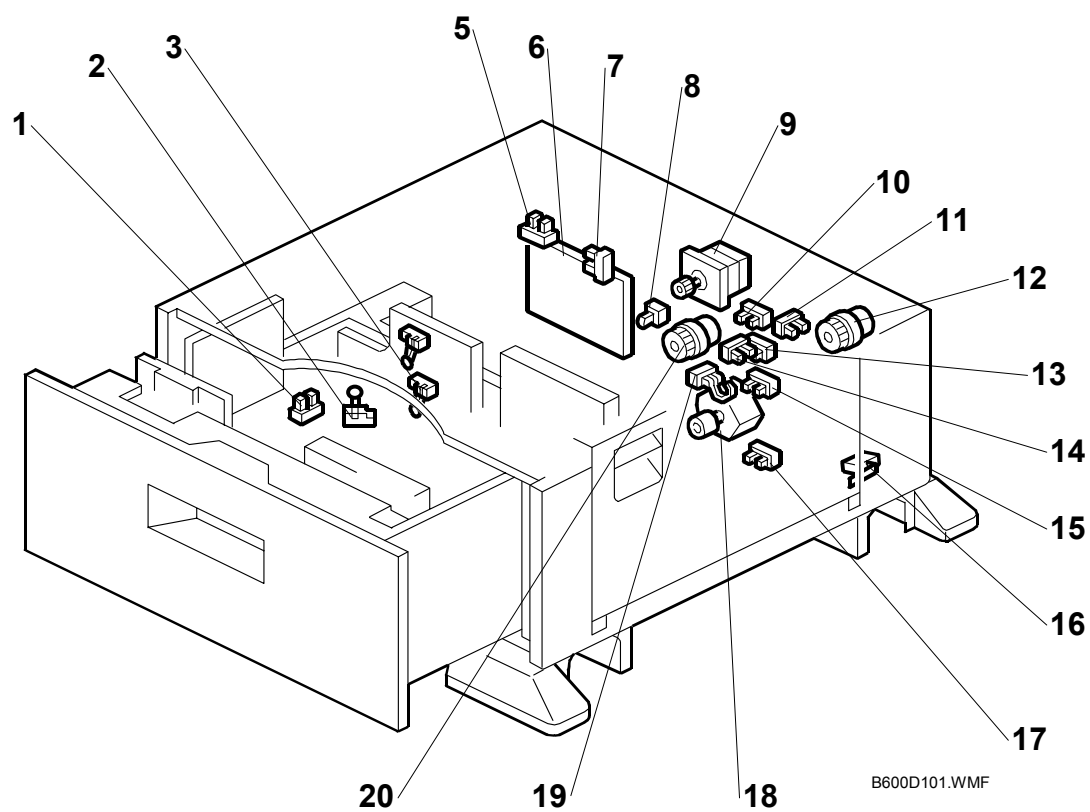
ELECTRICAL COMPONENT DESCRIPTION (B598)

Symbol	Description	Index No.	P-to-P
Motors			
M1	Paper Feed	7	B3
M2	Upper Tray Lift	12	B4
M3	Lower Tray Lift	16	B5
Sensors			
S1	Upper Lift	9	G1
S2	Lower Lift	15	G2
S3	Upper Relay	21	G1
S4	Lower Relay	18	G2
S5	Upper Paper End	11	G1
S6	Lower Paper End	17	G2
S7	Upper Paper Height 1	6	G4
S8	Upper Paper Height 2	8	G4
S9	Lower Paper Height 1	20	G5
S10	Lower Paper Height 2	19	G6
Switches			
SW1	Upper Paper Size 1	1	G3
SW2	Upper Paper Size 2	2	G3
SW3	Upper Paper Size 3	3	G3
SW4	Upper Paper Size 4	4	G4
SW5	Lower Paper Size 1	25	G4
SW6	Lower Paper Size 2	23	G5
SW7	Lower Paper Size 3	24	G5
SW8	Lower Paper Size 4	22	G5
SW9	Vertical Guide	14	B5
Motors			
MC1	Upper Paper Feed	10	B3
MC2	Lower Paper Feed	13	B4
PCBs			
PCB1	Main	5	D6
Heaters			
H1	Tray Heater (Option)	-	C2

LARGE CAPACITY TRAY (B600) POINT TO POINT DIAGRAM



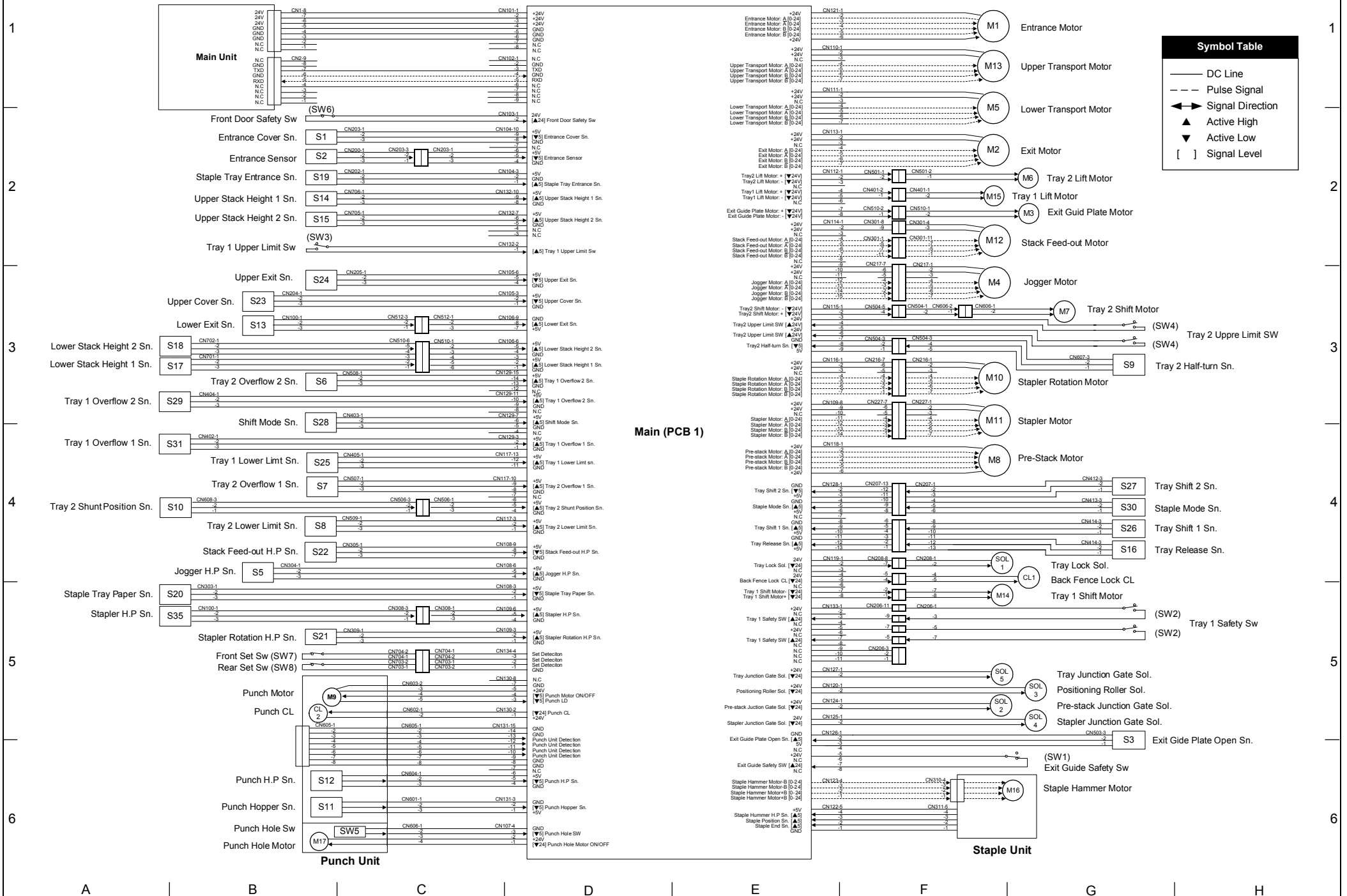
LARGE CAPACITY TRAY (B600) ELECTRICAL COMPONENT LAYOUT



ELECTRICAL COMPONENT DESCRIPTION (B600)

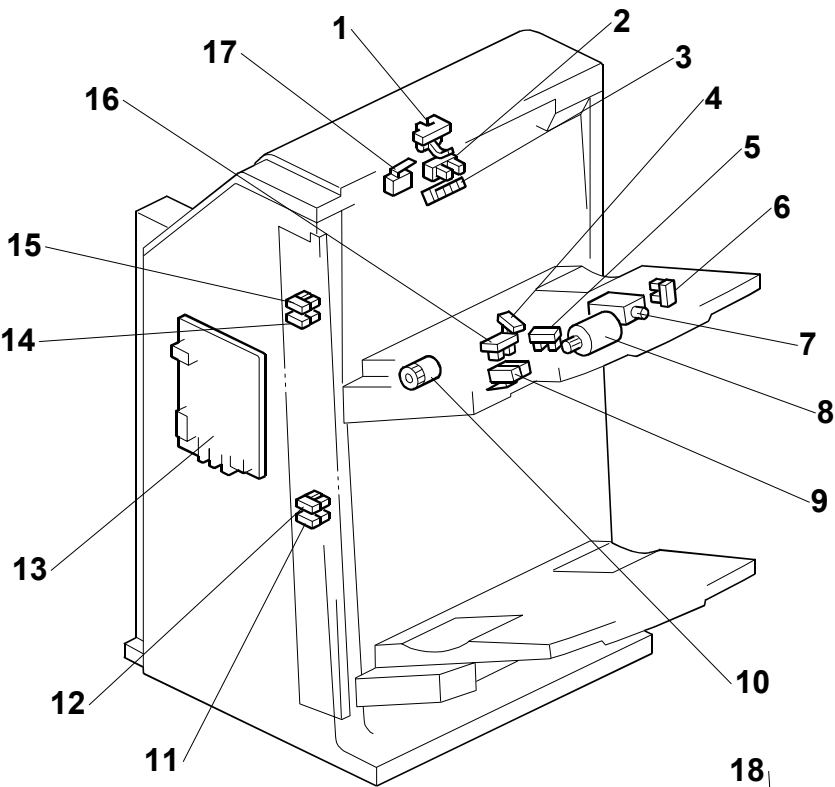
Symbol	Description	Index No.	P-to-P
M1	Tray Motor	9	B3
M2	Tray Lift Motor	18	B4
S1	Right Tray Paper End	14	G2
S2	Relay	19	G1
S3	Upper Limit	11	G1
S4	Lower Limit	17	G3
S5	Paper Height 1	10	G2
S6	Paper Height 2	13	G3
S7	Paper Height 3	15	G3
S8	Paper Height 4	3	G5
S9	Paper Height 5	4	G6
S10	Paper Size	5	G4
S11	End Fence Home Position	1	G5
S12	Tray	8	G2
S13	Side Fence Open/Closed	7	G4
S14	Left Tray Paper End	2	G5
SW1	Vertical Guide	16	B5
MC1	Paper Feed	12	B3
MC2	Stack Transport	20	B4
PCB1	Main	6	D6
H1	Tray Heater (Option)	-	C2

TWO-TRAY FINISHER (B599) POINT TO POINT DIAGRAM

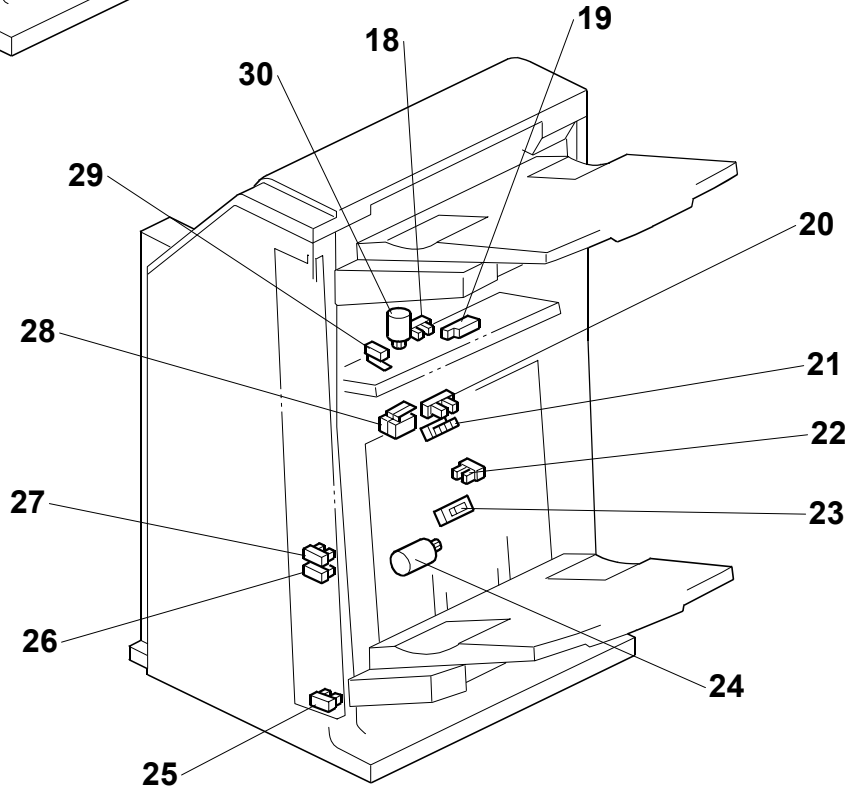


TWO-TRAY FINISHER (B599)

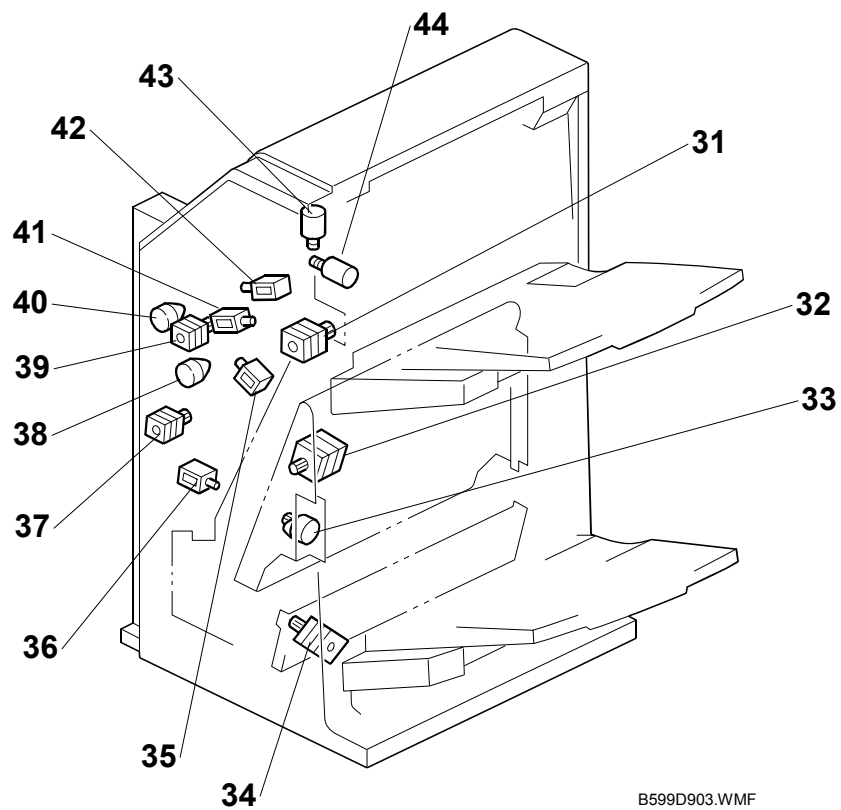
ELECTRICAL COMPONENT LAYOUT



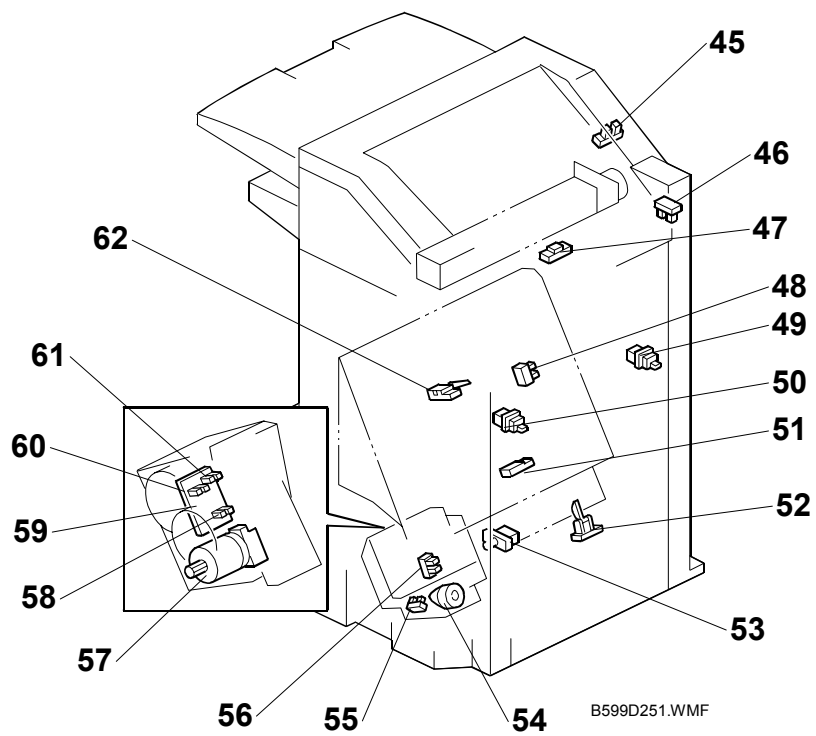
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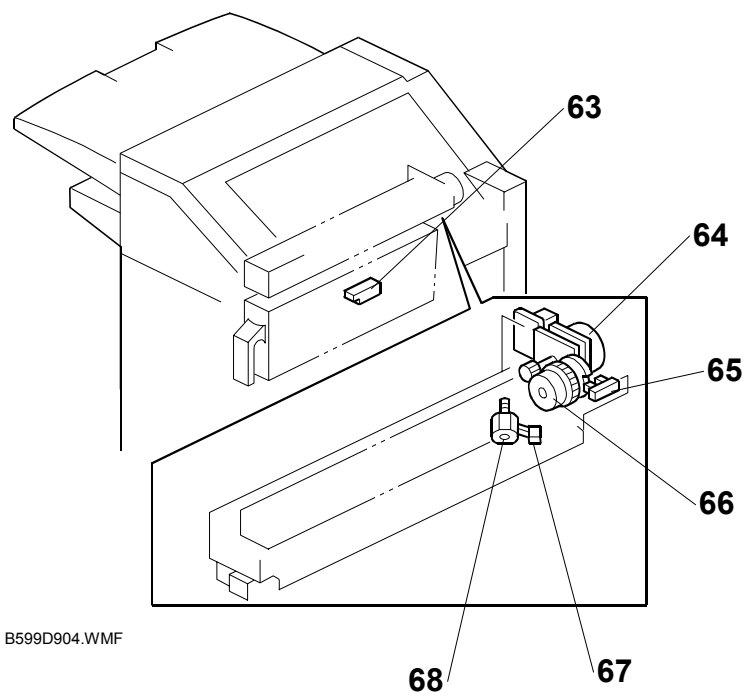
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B599D903.WMF



B599D251.WMF

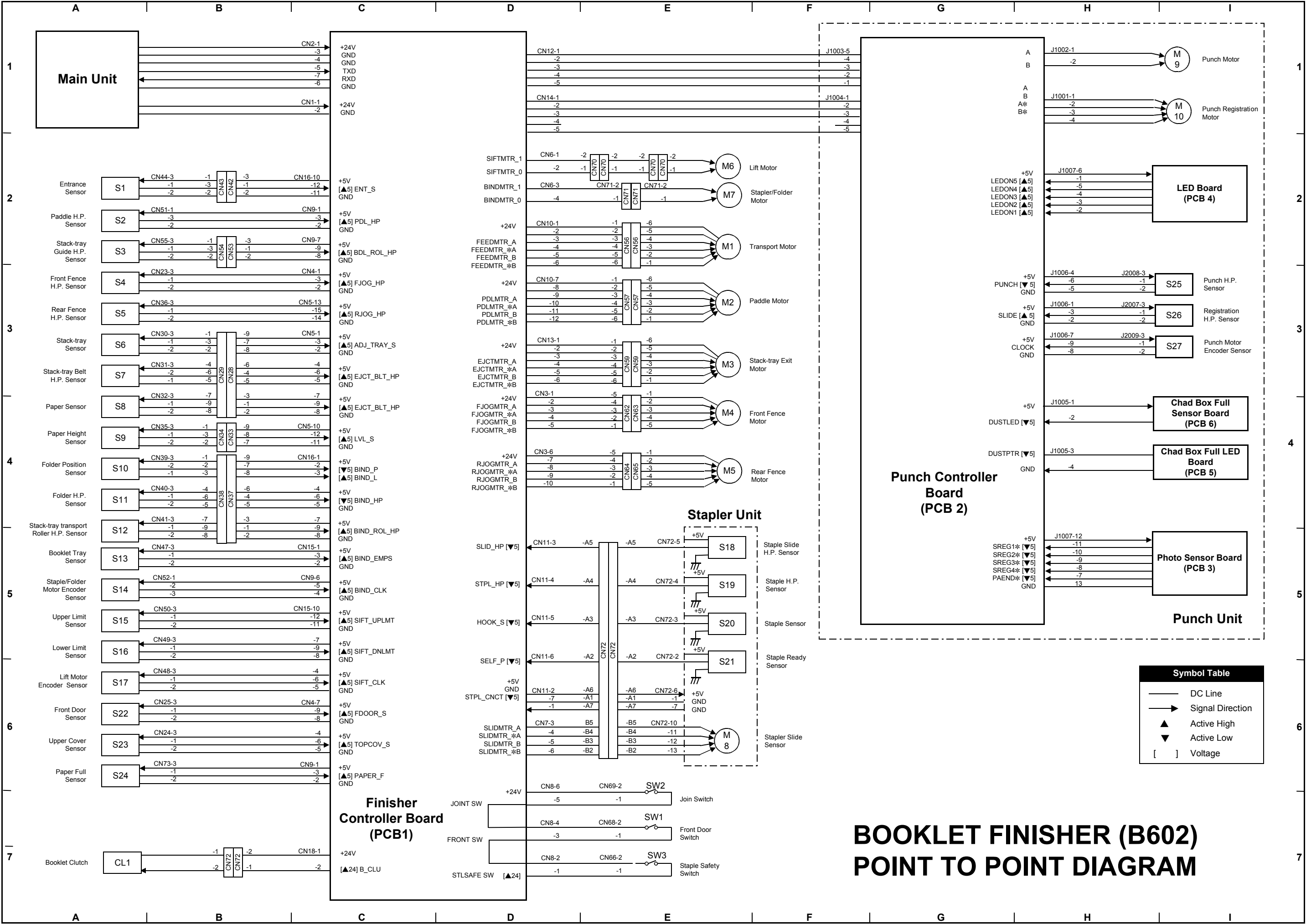


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ELECTRICAL COMPONENT DESCRIPTION (B599)

Symbol	Description	Index No.	P-to-P
Motors			
M1	Entrance	40	F1
M2	Exit	31	F2
M3	Exit guide plate	30	G2
M4	Jogger	33	F3
M5	Lower transport	37	F1
M6	Tray 2 lift	44	G2
M7	Tray 2 shift	24	G3
M8	Pre-stack	38	G4
M9	Punch	64	B5
M10	Stapler rotation	54	F3
M11	Stapler	34	F3
M12	Stack feed-out	32	F2
M13	Upper transport	39	F1
M14	Tray 1 shift	8	F5
M15	Tray 1 lift	43	F2
M16	Staple hammer	57	G6
M17	Punch hole	68	B6
Sensors			
S1	Entrance cover	46	B2
S2	Entrance	47	B2
S3	Exit guide plate open	18	G6
S4	Staple position	61	E6
S5	Jogger HP	48	B4
S6	Tray 2 overflow-2	26	B3
S7	Tray 2 overflow-1	27	B4
S8	Tray 2 lower limit	25	B4
S9	Tray 2 half-turn	22	G3
S10	Tray 2 shunt position	23	B4
S11	Punch hopper	63	B6
S12	Punch HP	65	B6
S13	Lower exit	19	B3
S14	Upper stack height 1	2	B2
S15	Upper stack height 2	3	B2
S16	Tray release	16	G4
S17	Lower stack height 1	20	B3
S18	Lower stack height 2	21	B3
S19	Staple tray entrance	52	B2
S20	Staple tray paper	51	B5
S21	Stapler rotation HP	55	B5
S22	Stack feed-out HP	62	B4
S23	Upper cover	45	B3
S24	Upper exit	1	B3
S25	Tray 1 lower limit	11	B4
S26	Tray shift 1	4	G4

Symbol	Description	Index No.	P-to-P
S27	Tray shift 2	5	G4
S28	Shift mode	14	B3
S29	Tray 1 overflow-2	12	B3
S30	Staple mode	6	G4
S31	Tray 1 overflow-1	15	B4
S32	Staple hammer HP	60	E6
S34	Staple end	58	E6
S35	Stapler HP	56	B5
Solenoids			
SOL1	Tray lock	7	F4
SOL2	Pre-stack junction gate	35	F5
SOL3	Positioning roller	36	G5
SOL4	Stapler junction gate	41	G5
SOL5	Tray junction gate	42	F5
Switches			
SW1	Exit guide safety	29	G6
SW2	Tray 1 safety	9	G5
SW3	Tray 1 upper limit	17	B2
SW4	Tray 2 upper limit	28	G3
SW5	Punch hole	67	C6
SW6	Front door safety	53	B2
SW7	Front set	50	B5
SW8	Rear set	49	B5
Electrical Clutches			
CL1	Back fence lock	10	G4
CL2	Punch	66	B5
PCBs			
PCB1	Main	13	D4
PCB2	Stapler Sensor	59	NA



BOOKLET FINISHER (B602) ELECTRICAL COMPONENT LAYOUT

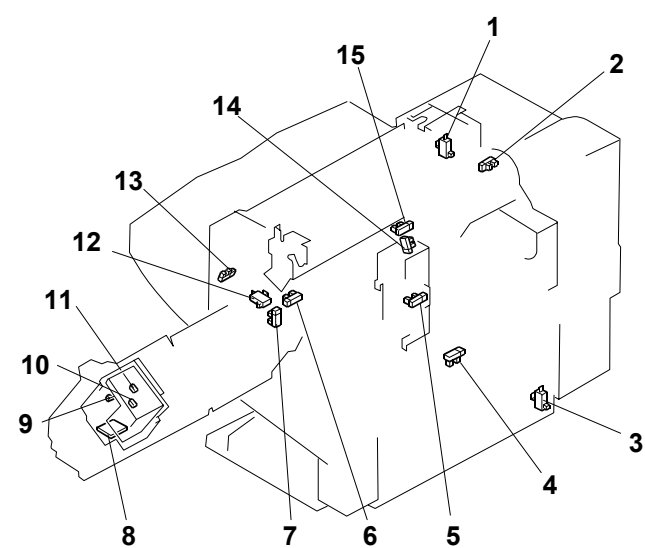


Fig. 1

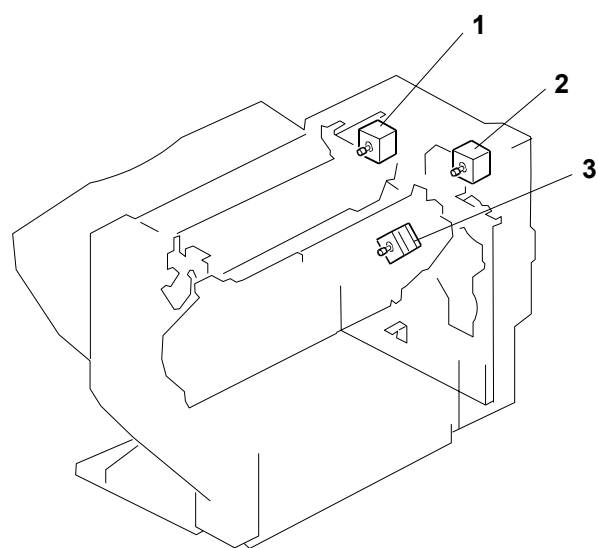


Fig. 3

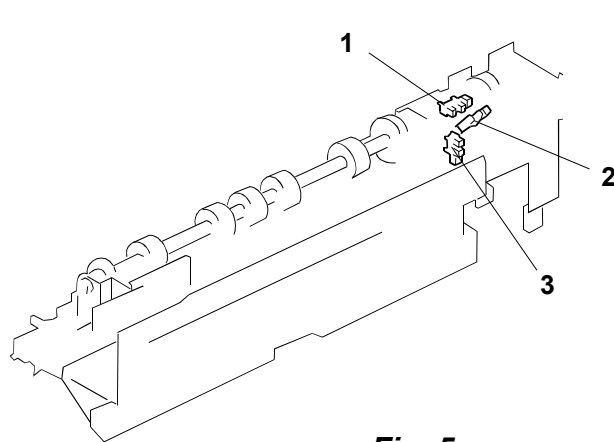


Fig. 5

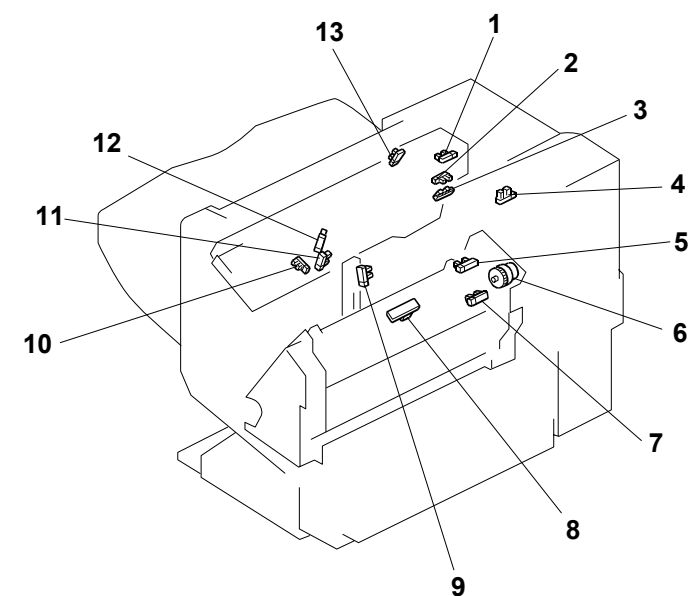


Fig. 2

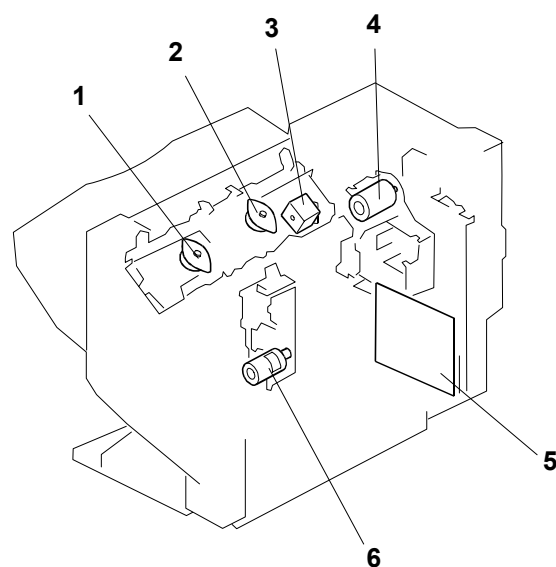


Fig. 4

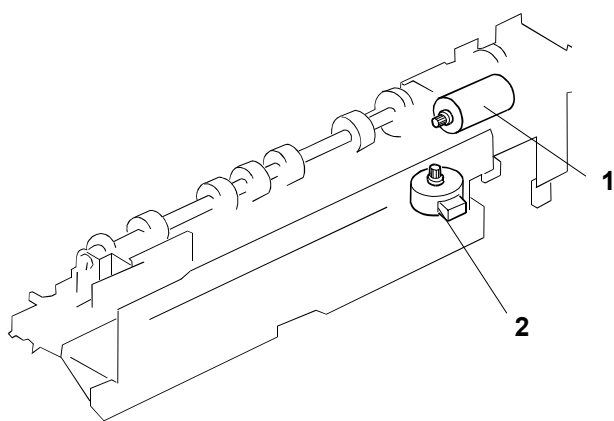


Fig. 6

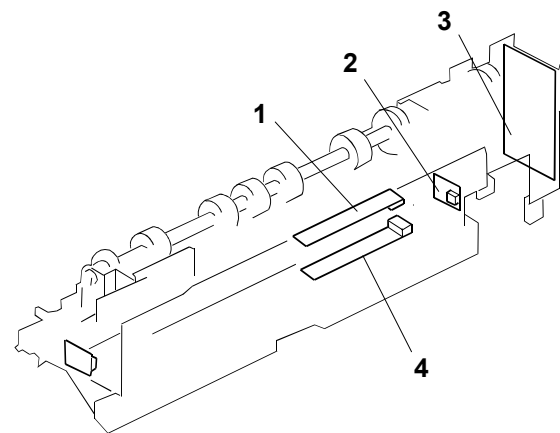


Fig. 7

Symbol	Description	Index No.	P-to-P
Printed Circuit Boards			
PCB1	Finisher Controller Board	4-5	C7
PCB2	Punch Controller Board	7-3	G4
PCB3	Photo Sensor Board	7-1	I5
PCB4	LED Board	7-4	I2
PCB5	Punch Box Full LED Board	7-5	I4
PCB6	Punch Box Full Sensor Board	7-2	I4
Motors			
M1	Transport Motor	3-2	E2
M2	Paddle Motor	3-1	E3
M3	Stack-tray Exit Motor	4-3	E3
M4	Front Fence Motor	4-1	E4
M5	Rear Fence Motor	4-2	E4
M6	Lift Motor	4-6	E2
M7	Staple/Folder Motor	4-4	E2
M8	Staple Slide Motor	3-3	E6
M9	Punch Motor	6-1	I1
M10	Punch Registration Motor	6-2	I1
Sensors			
S1	Entrance Sensor	2-4	A2
S2	Paddle H.P. Sensor	2-3	A2
S3	Stack-tray Guide H.P. Sensor	2-2	A2
S4	Front Fence H.P. Sensor	1-13	A3
S5	Rear Fence H.P. Sensor	2-13	A3
S6	Stack-tray Sensor	2-11	A3
S7	Stack-tray Belt H.P. Sensor	2-12	A3
S8	Paper Sensor	2-10	A4
S9	Paper Height Sensor	2-9	A4
S10	Folder Position Sensor	2-8	A4
S11	Folder H.P. Sensor	2-7	A4
S12	Stack-tray Transport Roller H.P. Sensor	2-5	A5
S13	Booklet Tray Sensor	1-4	A5
S14	Staple/Folder Motor Encoder Sensor	1-2	A5
S15	Upper Limit Sensor	2-1	A5
S16	Lower Limit Sensor	1-15	A5
S17	Lift Motor Encoder Sensor	1-5	A6
S18	Staple Slide H.P. Sensor	1-8	E5
S19	Staple H.P. Sensor	1-11	E5
S20	Staple Sensor	1-10	E5
S21	Staple Ready Sensor	1-9	E6
S22	Front Door Sensor	1-7	A6
S23	Upper Cover Sensor	1-6	A6
S24	Paper Full Sensor	1-14	A6
S25	Punch H.P. Sensor	5-2	I3
S26	Registration H.P. Sensor	5-3	I3
S27	Punch Motor Encoder Sensor	5-1	I3
Switches			
SW1	Front Door Switch	1-12	E7
SW2	Joint Switch	1-3	E7
SW3	Staple Safety Switch	1-1	E7
Clutches			
CL1	Booklet Clutch	2-6	A7