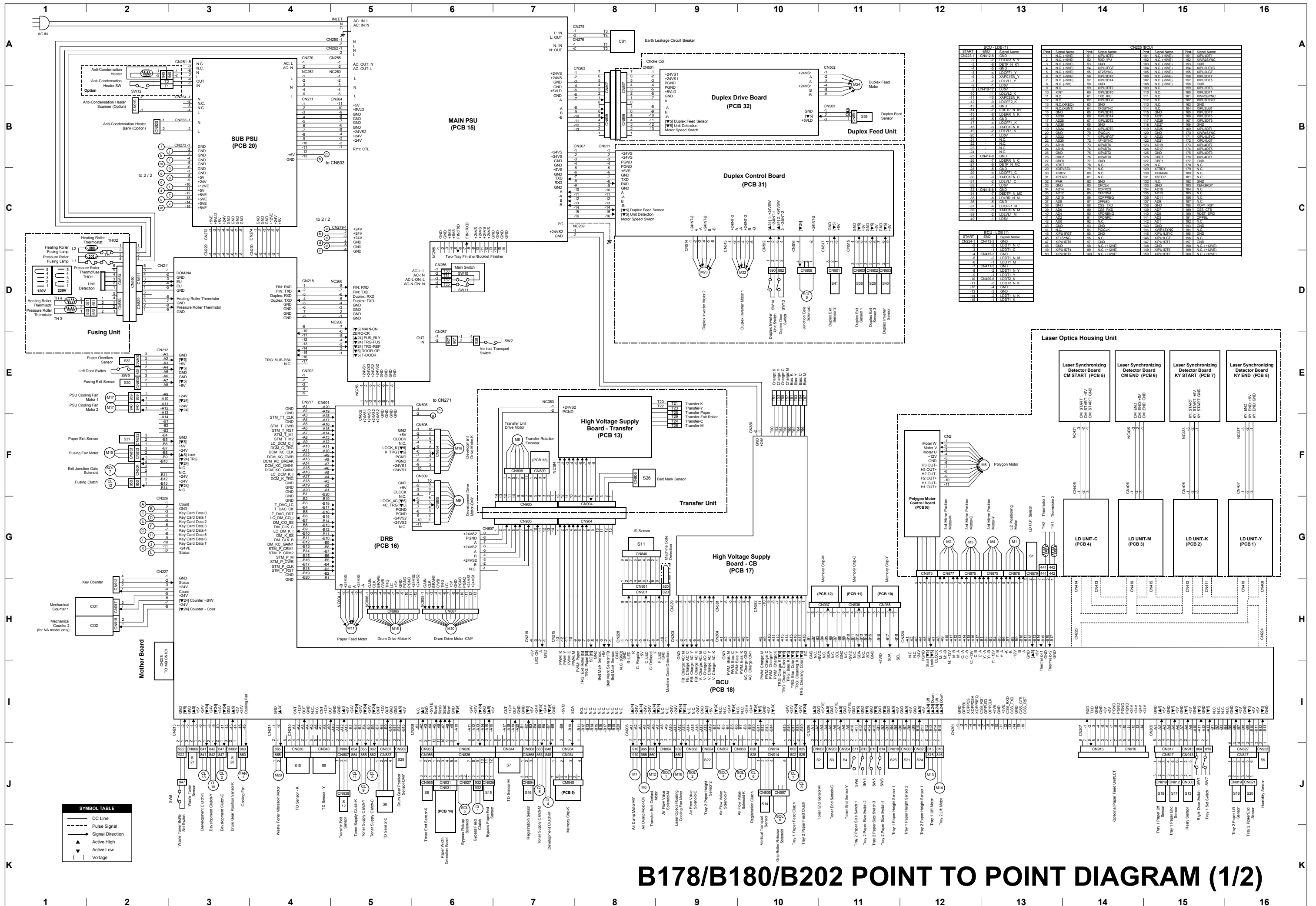
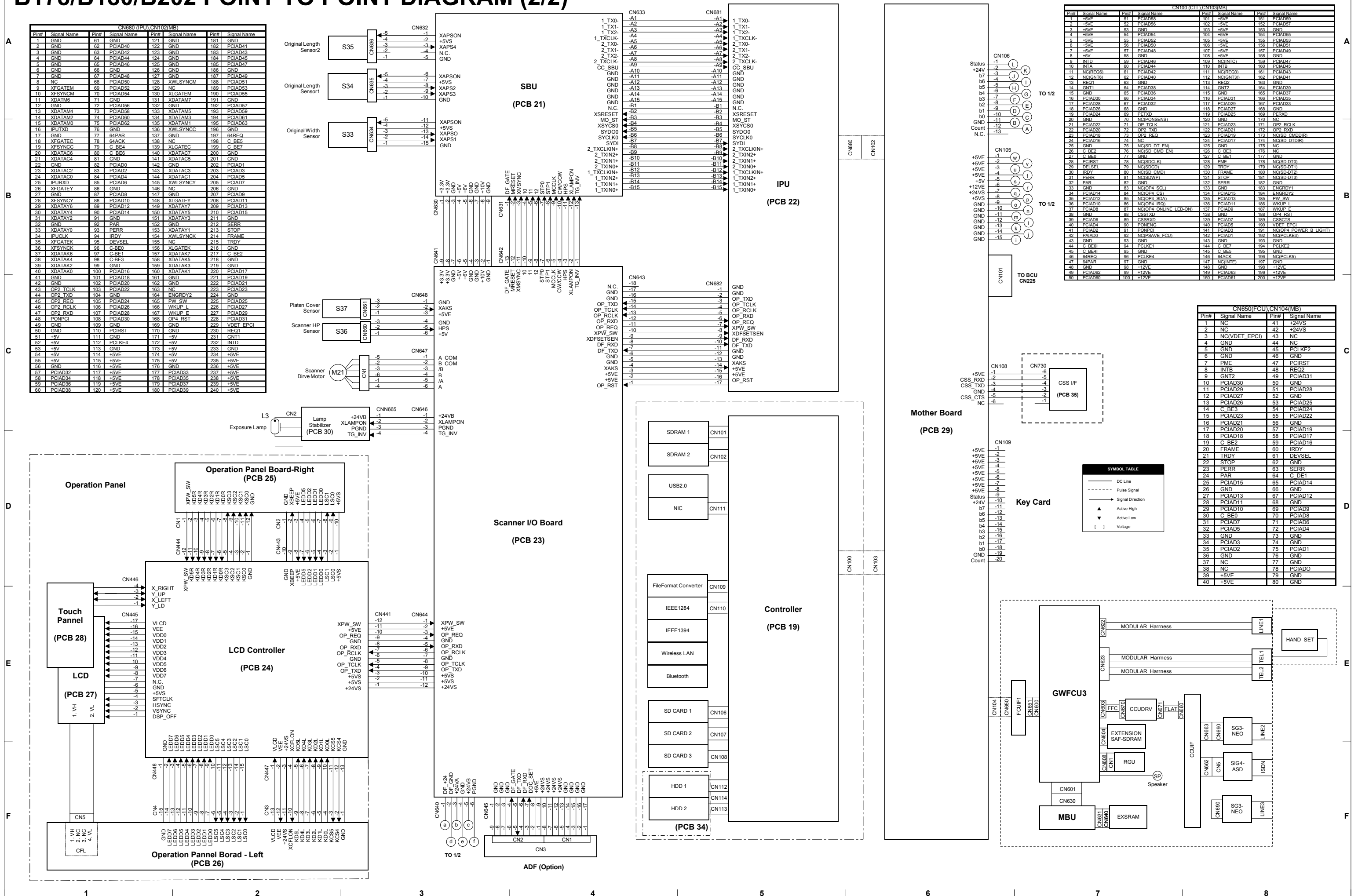


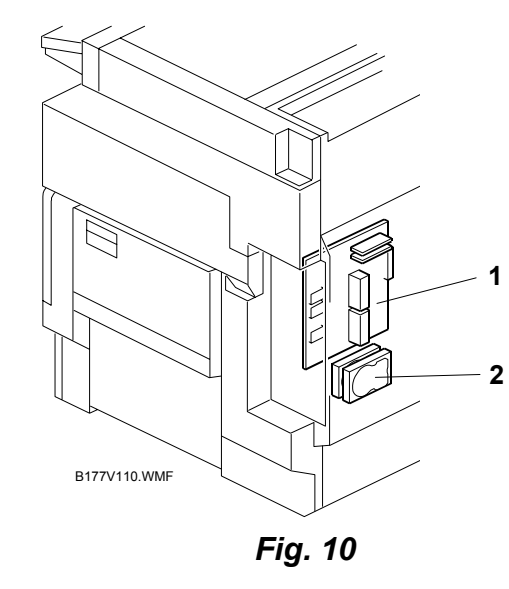
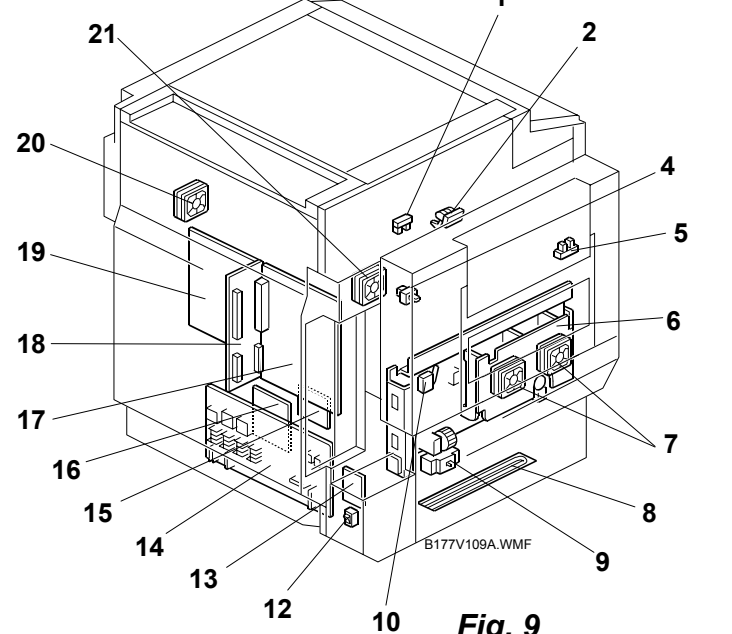
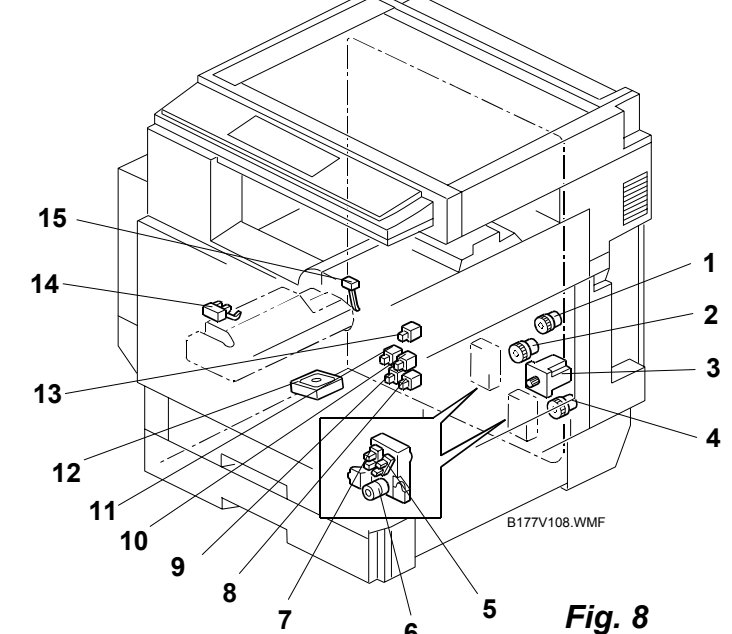
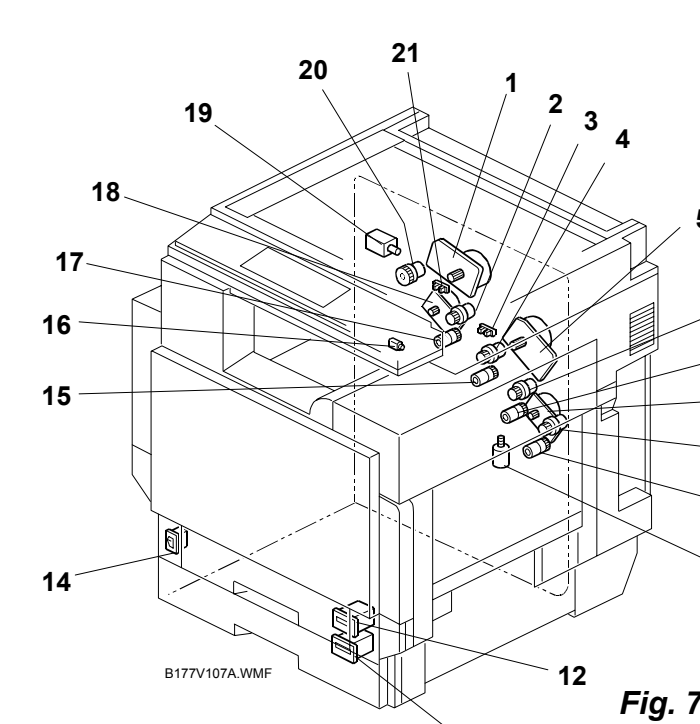
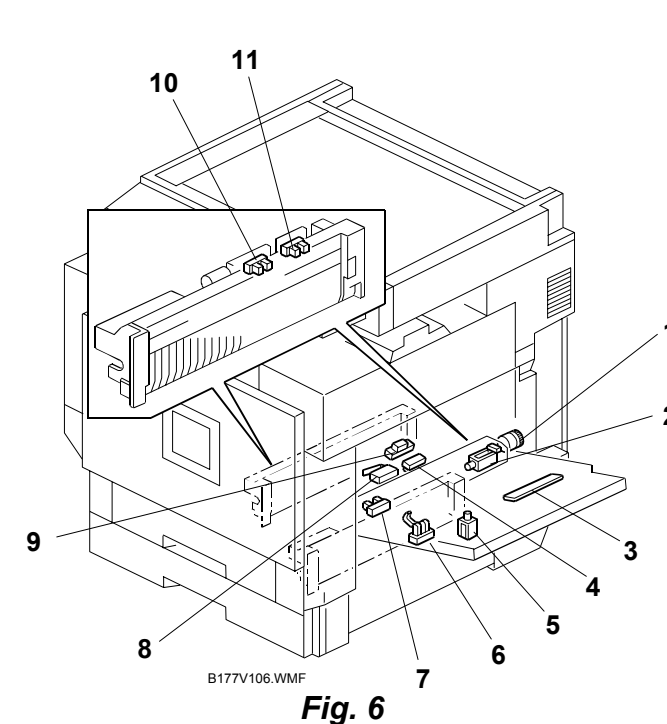
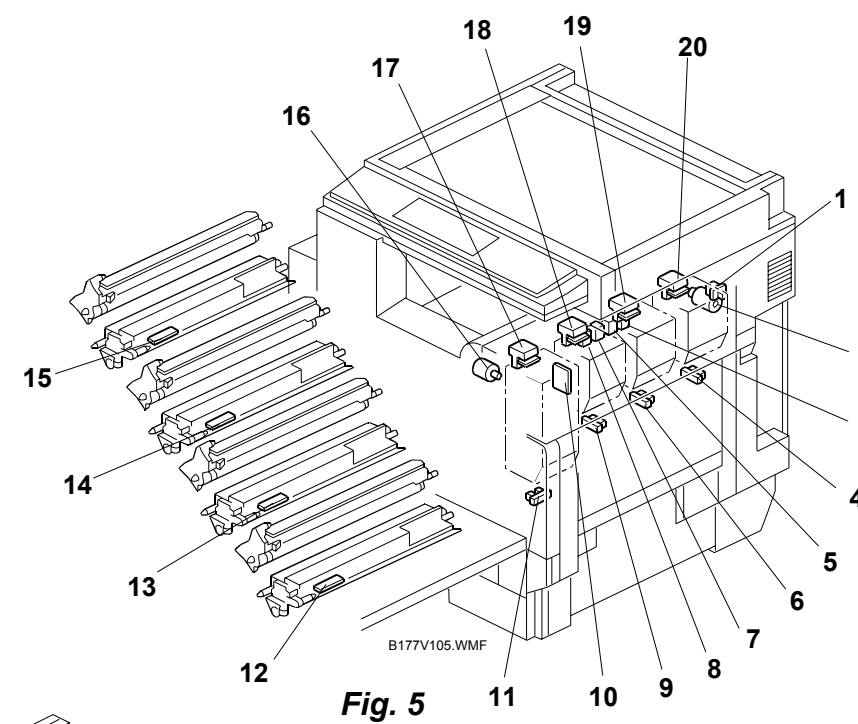
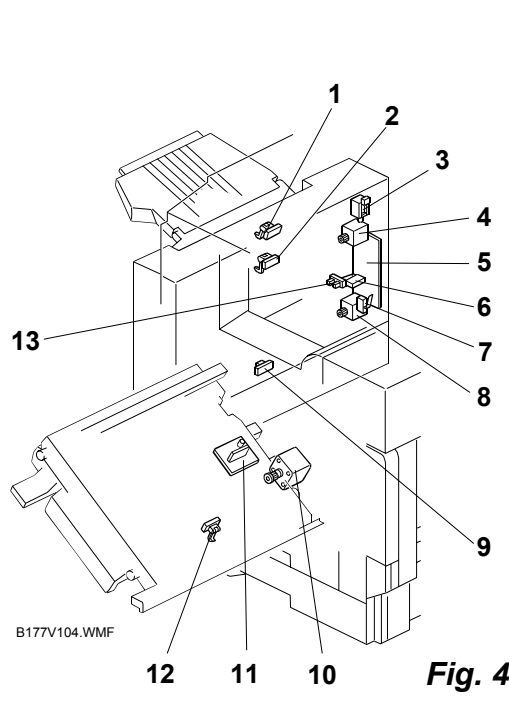
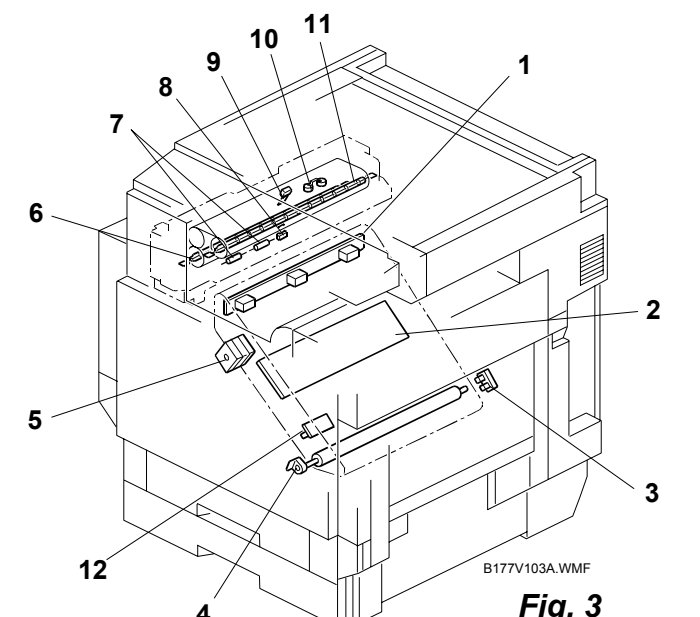
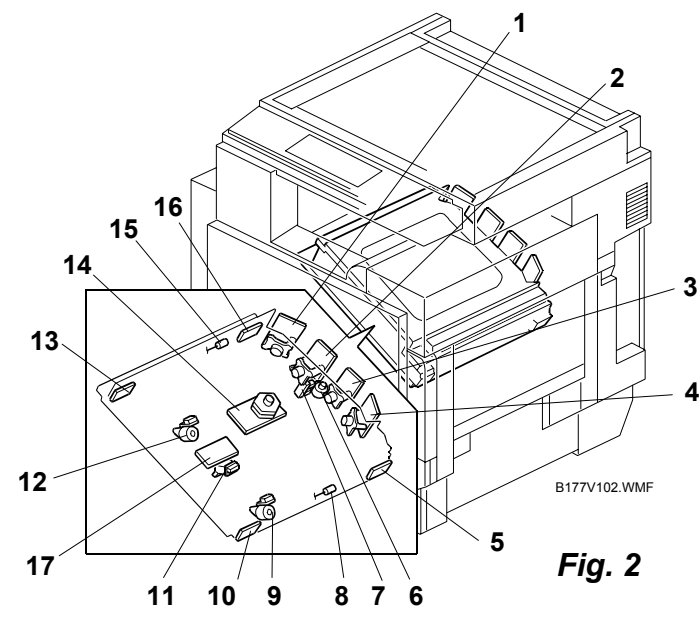
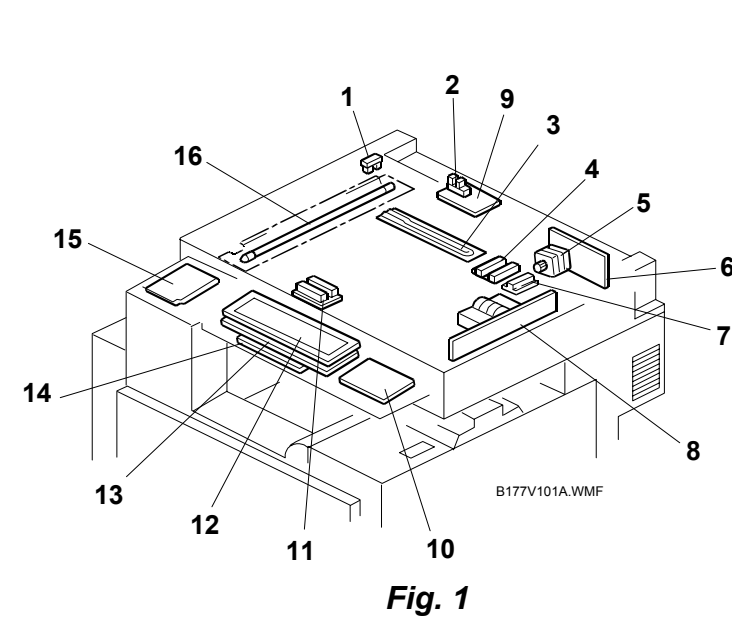


B178/B180/B202 POINT TO POINT DIAGRAM (1/2)

B178/B180/B202 POINT TO POINT DIAGRAM (2/2)



B178/B180/B202 ELECTRICAL COMPONENT LAYOUT (1/2)



B178/B180/B202 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	E15(1/2)
PCB8	Laser Synchronizing Detector Board-YK – E	2-16	E16(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	H11(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)
PCB36	Polygon motor Control Board	2-17	G12(1/2)
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	G13(1/2)
M5	Polygon Motor	2-14	F12(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 Motor1,2	9-7	E2(1/2)
M18	Laser Optics Housing Cooling Fan Motor	9-20	J9(1/2)
M19	Fusing Fan Motor	9-21	F2(1/2)
M20	Waste Toner Vibration Motor	7-16	J4(1/2)
M21	Scanner Drive Motor	1-5	C2(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	Duplex Exit Sensor 3	4-13	D11(1/2)
S26	Belt Mark Sensor	3-12	F8(1/2)
S27	Waste Toner Sensor	8-14	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	E2(1/2)
S31	Paper Exit Sensor	9-1	F2(1/2)
S32	Paper Overflow Sensor	9-2	E2(1/2)
S33	Original Width Sensor	1-11	B3(2/2)
S34	Original Length Sensor 1	1-4	A3(2/2)
S35	Original Length Sensor 2	1-7	A3(2/2)
S36	Scanner H.P. Sensor	1-1	C3(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)
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	8-13	J15(1/2)
SW8	Waste Toner Bottle Set Switch	8-15	J3(1/2)
SW9	Left Door Switch	9-4	E2(1/2)
SW10	Main Switch	7-14	D6(1/2)
SW11	Front Door and Left Door Switch	9-10	D6(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	Duplex Junction Gate Solenoid	4-3	D10(1/2)
Lamps			
L1	Pressure Roller Fusing Lamp	3-6	D1(1/2)
L2	Heating Roller Fusing Lamp	3-11	D1(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	D1(1/2)
TH4	Heating Roller Thermistor	3-9	D1(1/2)
Thermofuse/Stat			
THO1	Pressure Roller Thermofuse	3-7	D2(1/2)
THO2	Heating Roller Thermostat	3-10	D2(1/2)
Others			
CO1	Mechanical Counter 1	7-12	H2(1/2)
CO2	Mechanical Counter 2	7-13	H2(1/2)
CB1	Earth Leakage Circuit Breaker	9-9	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)
FAN1	Cooling Fan	8-12	J3(1/2)

ARDF (B714) POINT TO POINT DIAGRAM

A

B

C

D

E

F

A

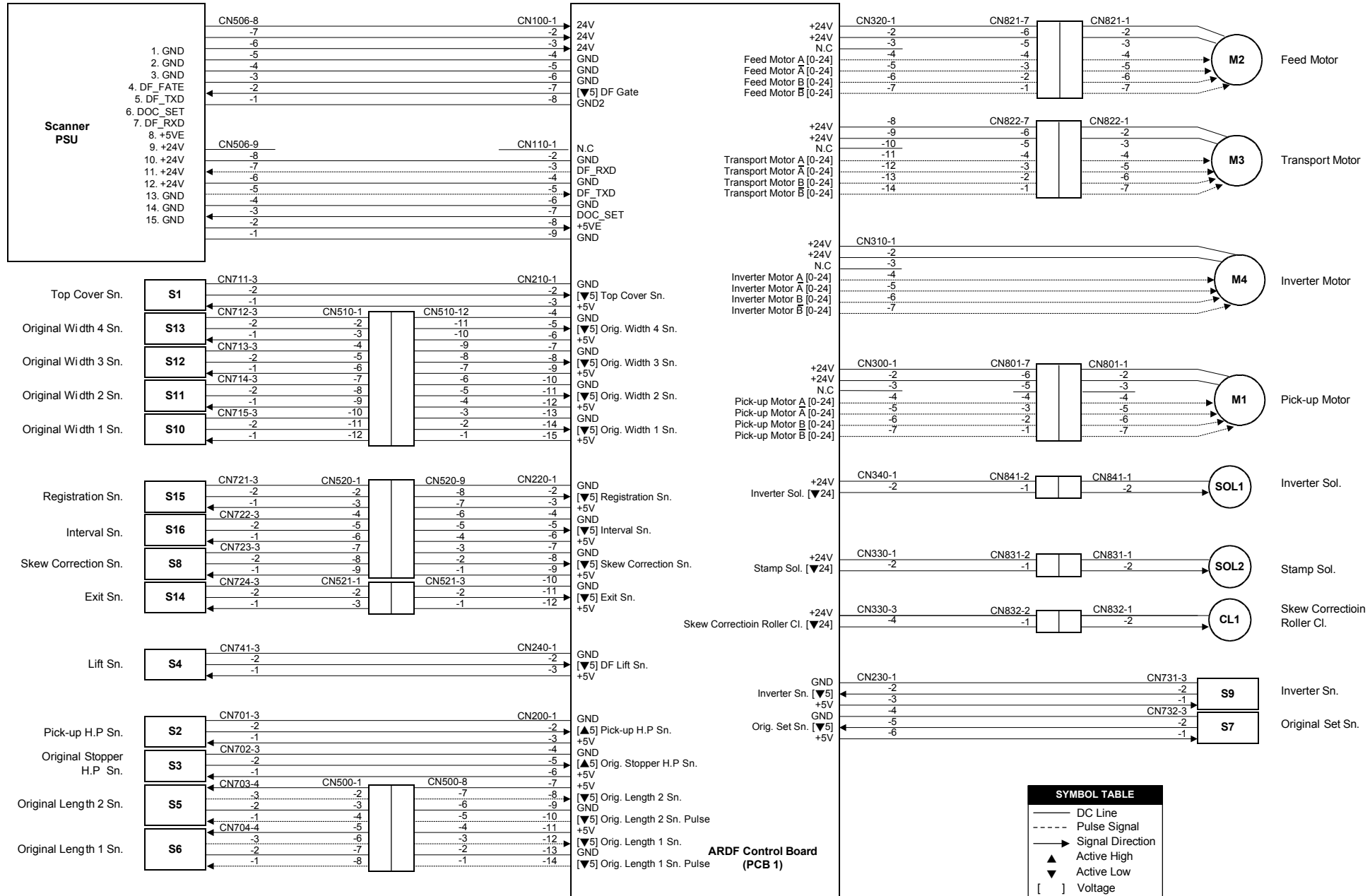
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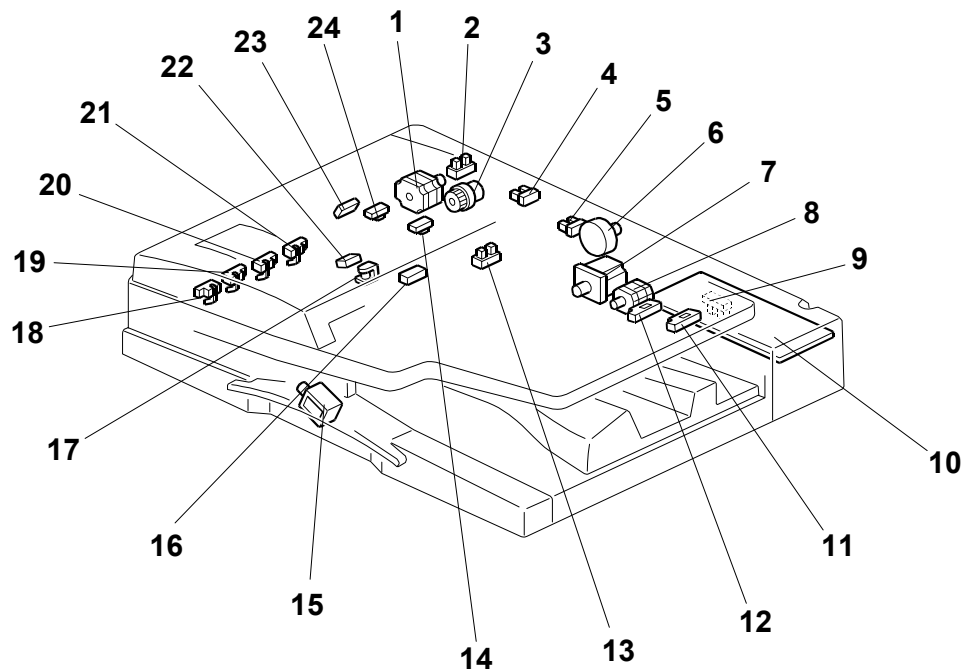
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E

F



ARDF (B714) 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