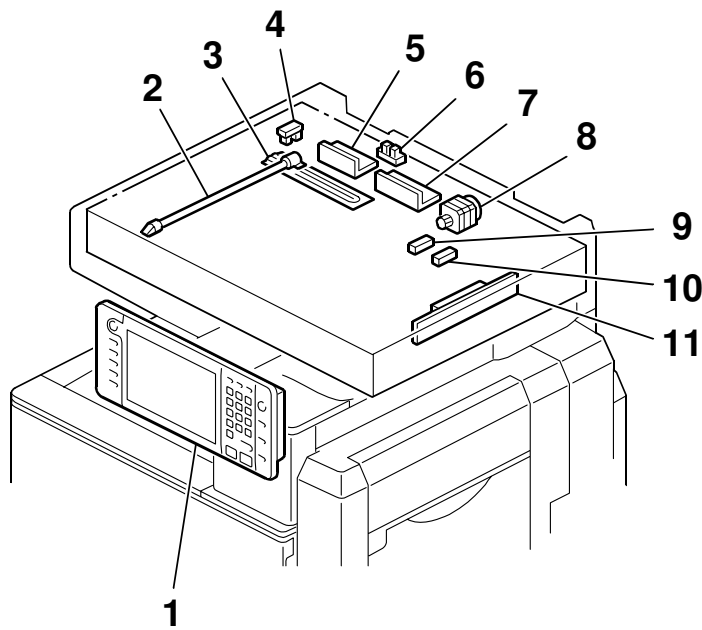


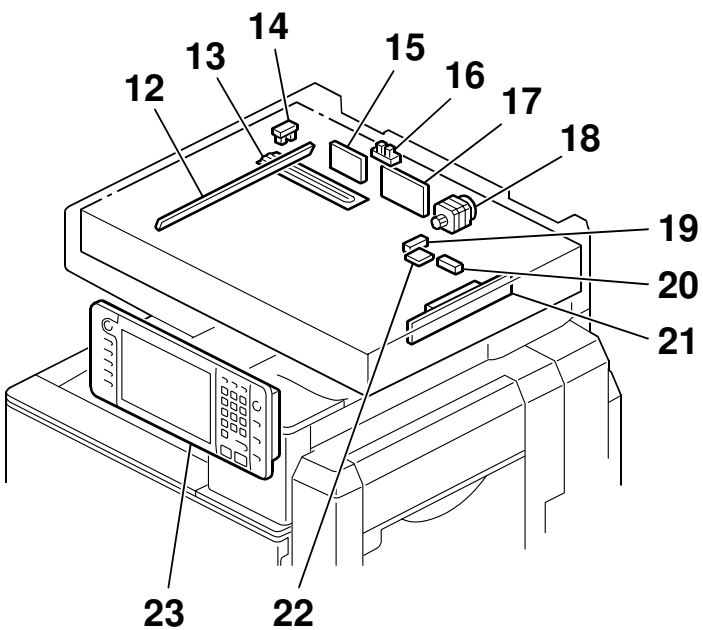
D111/D142/D143/D144 ELECTRICAL COMPONENT LAYOUT (1/4)

(D143/D144 Model Only)

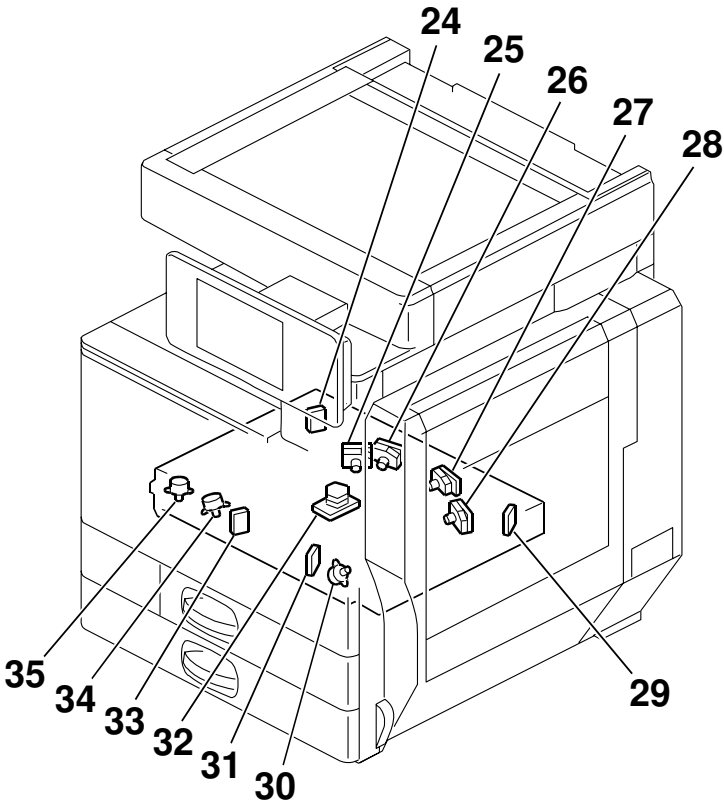


D111V101.Wmf

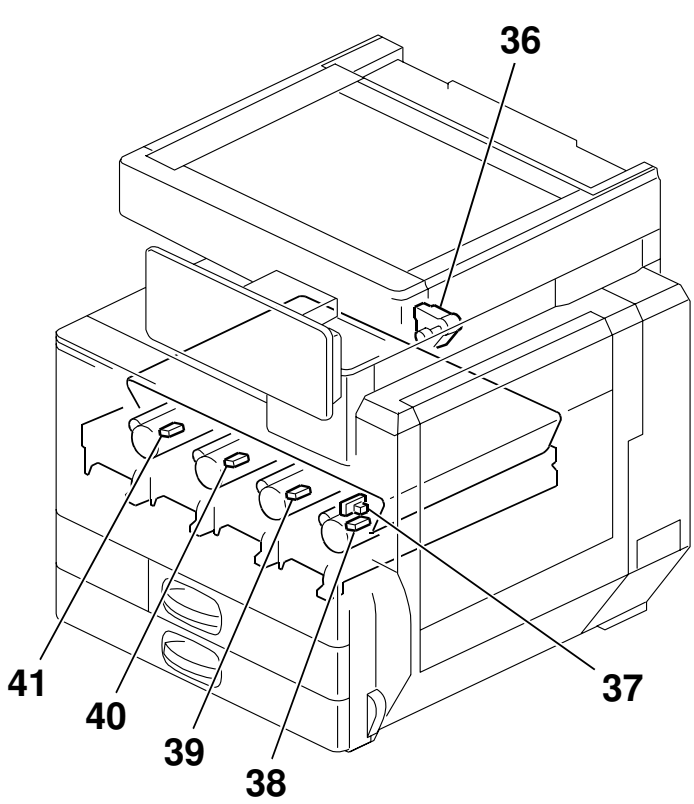
(D111/D142 Model Only)



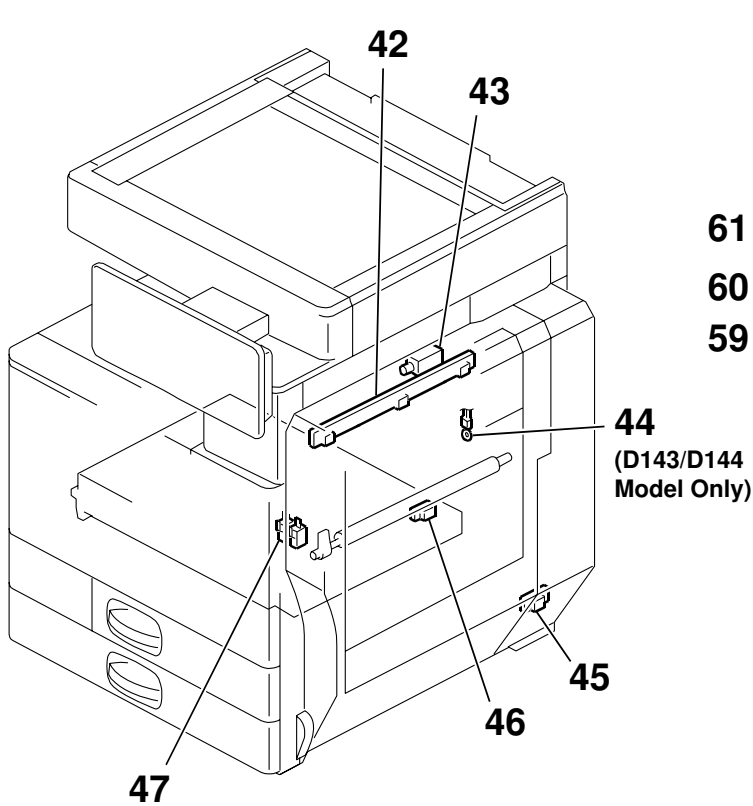
D144V101.Wmf



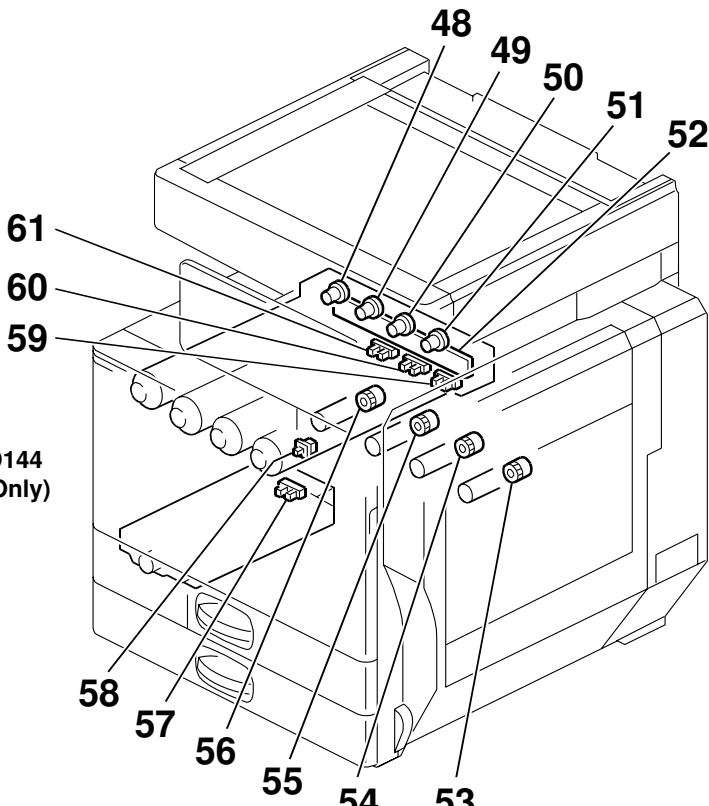
D144V106.Wmf



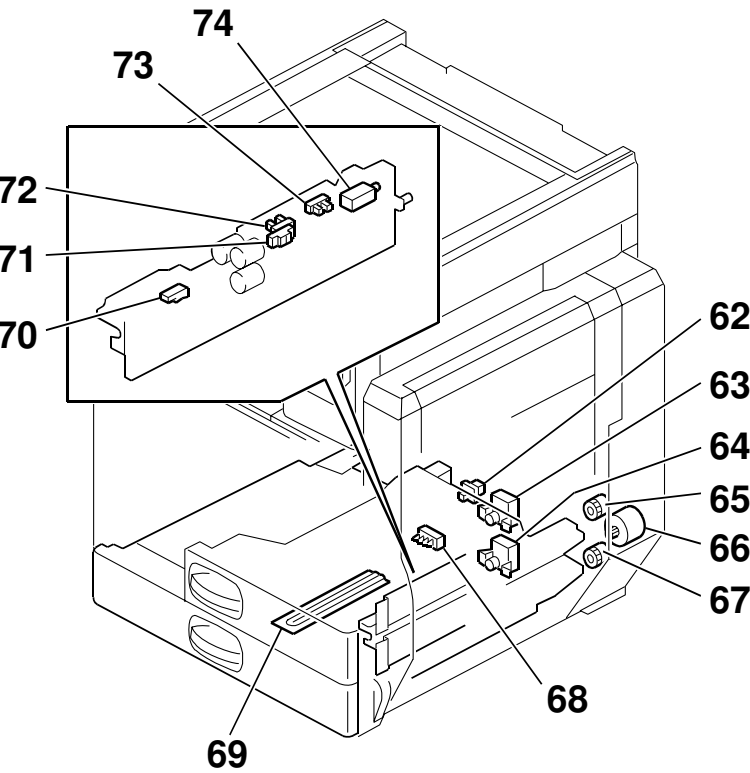
D144V107.Wmf



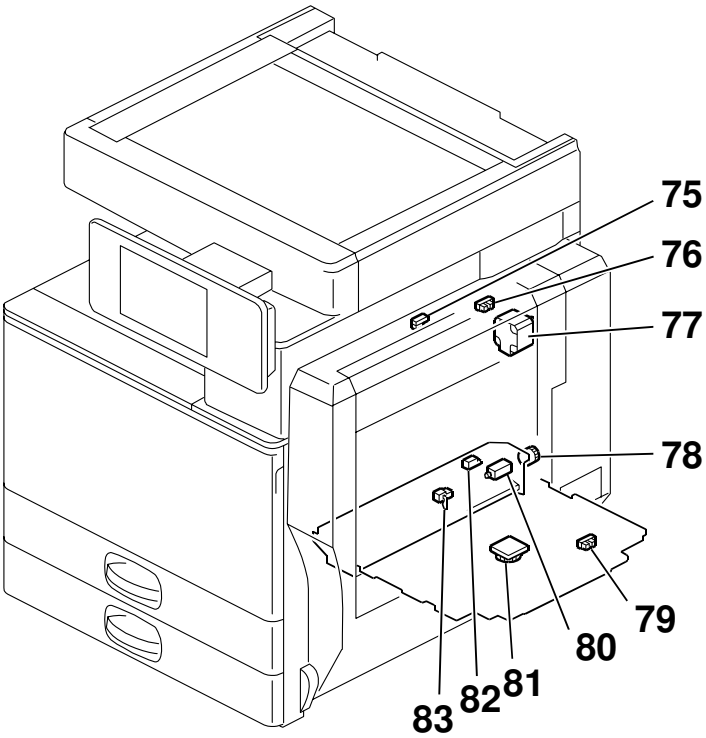
D144V104.Wmf



D144V105.Wmf

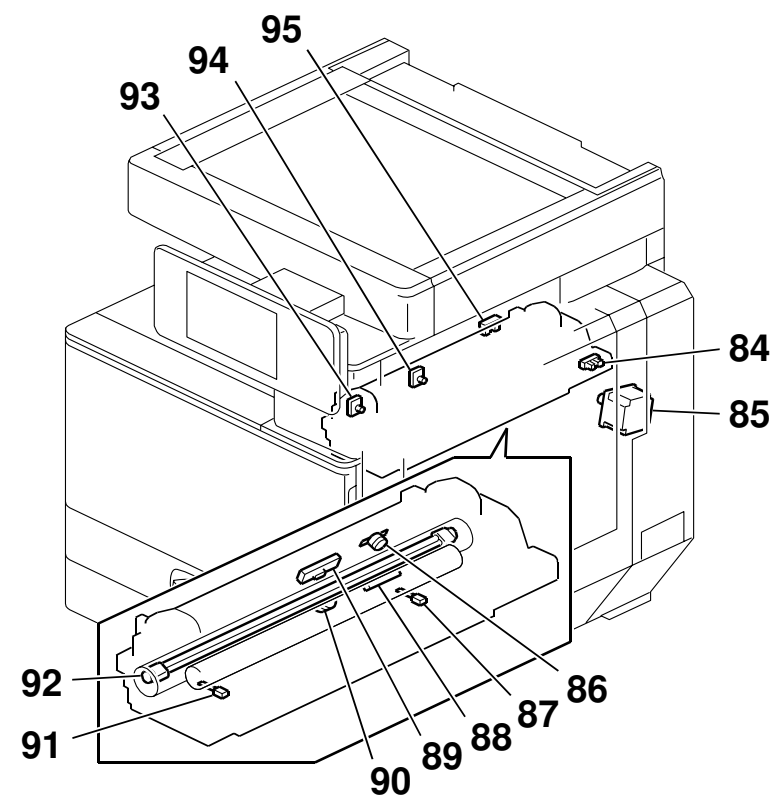


D144V103.Wmf

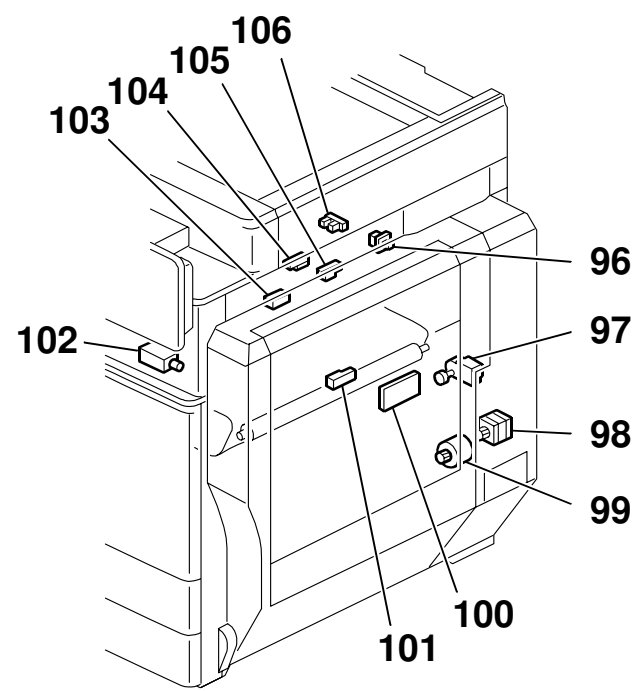


D129V105.Wmf

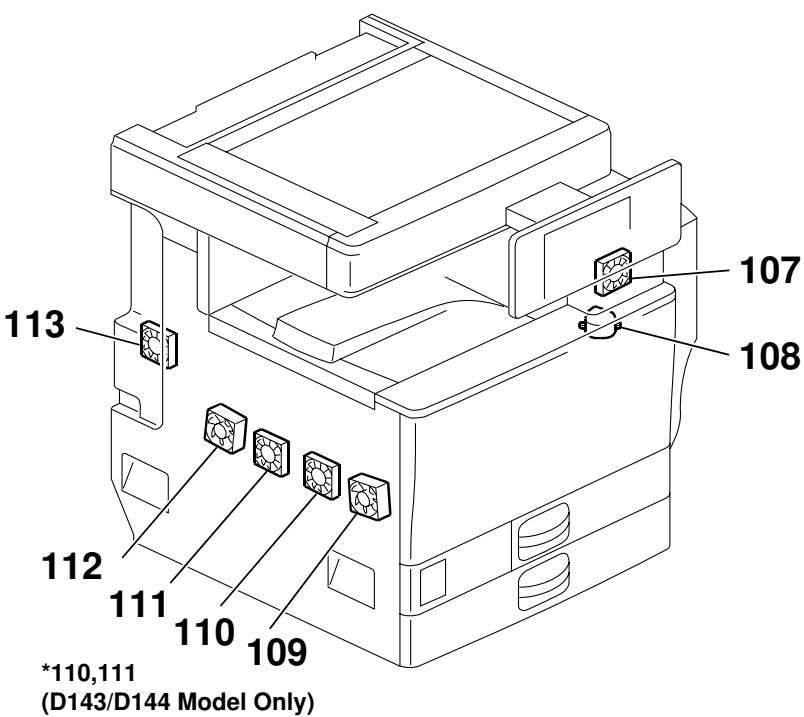
D1111/D142/D143/D144 ELECTRICAL COMPONENT LAYOUT (2/4)



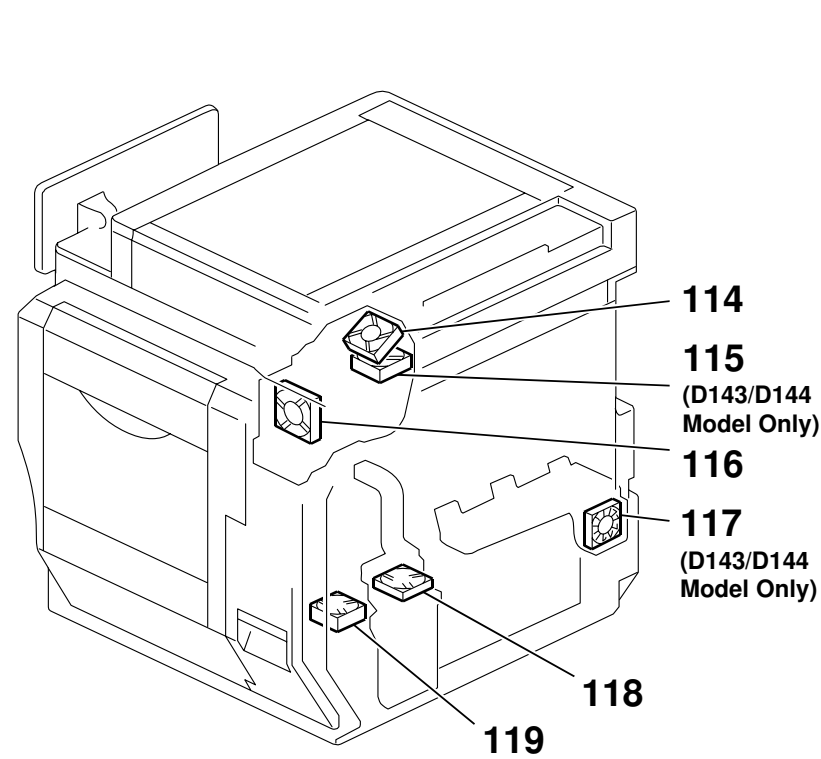
D144V801.Wmf



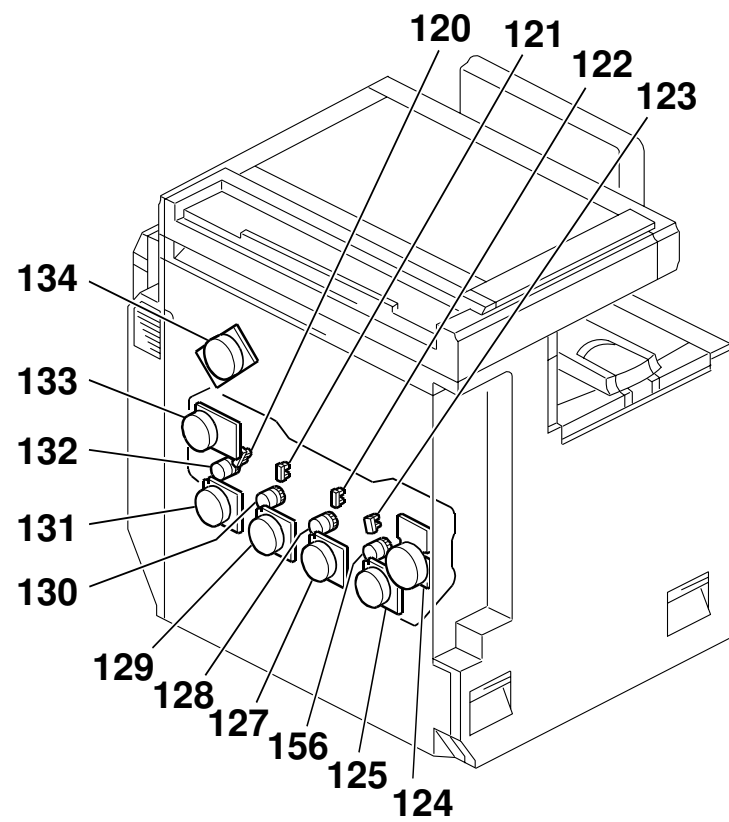
D144V111.Wmf



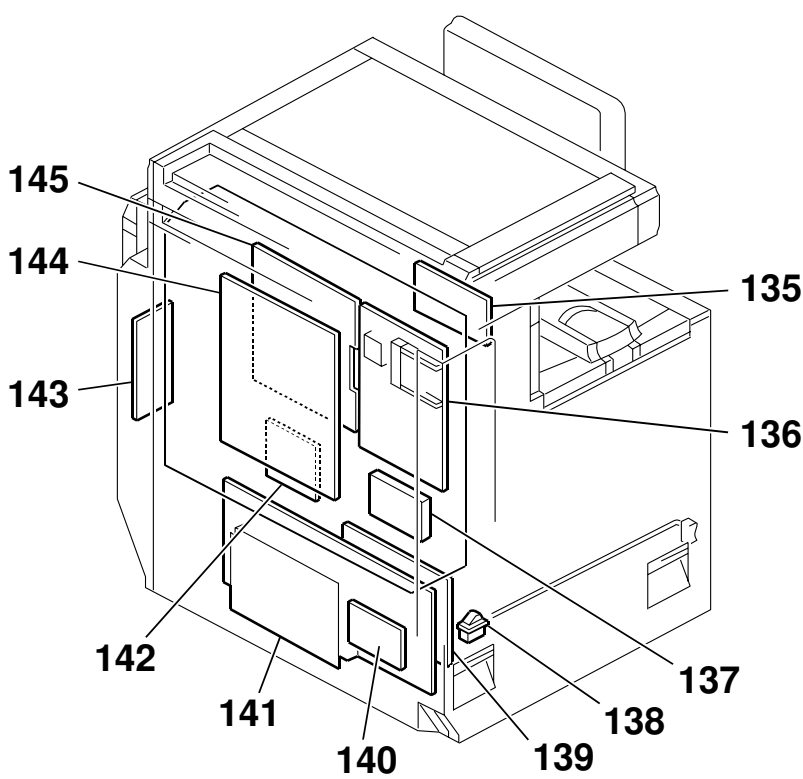
D144V150.Wmf



D144V151.Wmf



D144V108.Wmf



D144V109.Wmf

D111/D142/D143/D144 ELECTRICAL COMPONENT LAYOUT (3/4)

Symbol	Index No.	Description	P to P	Page
PCBs				
PCB1	143	AC Controller Board	B5	1/5
PCB2	142	BCU	F5	1/5
PCB3	139	HVP (C/B)	E10	1/5
PCB4	100	HVP (D)	I9	1/5
PCB5	135	HVP (T/TS)	G13	1/5
PCB6	145	IPU	D6	1/5
PCB7	28	LD Board (C)	E8	1/5
PCB8	27	LD Board (K)	F8	1/5
PCB9	26	LD Board (M)	E8	1/5
PCB10	25	LD Board (Y)	E8	1/5
PCB11	15	LED Control Board (*D111/D142)	B4	2/5
PCB12	141	PSU	C4	1/5
PCB13	11 , 21	SBU	C5	2/5
PCB14	22	SCNB (*D111/D143)	B5	2/5
PCB15	140	Shutdown Board	A2	1/5
PCB16	7 , 17	SIO	D2	2/5
PCB17	136	Controller Board	B9	2/5
PCB18	29	Laser Synchronizing Detector Board (K,C):LE	C8	1/5
PCB19	31	Laser Synchronizing Detector Board (K,C):TE	C8	1/5
PCB20	33	Laser Synchronizing Detector Board (M,Y):LE	C8	1/5
PCB21	24	Laser Synchronizing Detector Board (M,Y):TE	C8	1/5
PCB22	5	Lamp Stabilizer (*D143/D144)	A5	2/5
PCB23	52	BRB	D13	1/5
PCB24	144	IOB	K8	1/5
Sensors				
S1	39	TD Sensor (C)	G2	1/5
S2	38	TD Sensor (K)	G2	1/5
S3	40	TD Sensor (M)	G2	1/5
S4	41	TD Sensor (Y)	H2	1/5
S5	88	NC Sensor (End)	D2	1/5
S6	89	NC Sensor (Center)	E2	1/5
S7	42	ID Sensors	J14	1/5
S8	45	Temperature/Humidity Sensor	B10	1/5
S9	4 , 14	Scanner HP Sensor	E5	2/5
S10	59	Toner End Sensor (C)	E13	1/5
S11	60	Toner End Sensor (M)	E13	1/5
S12	61	Toner End Sensor (Y)	E13	1/5
S13	120	Drum Gear Position Sensor (K)	H3	1/5
S14	121	Drum Gear Position Sensor (C)	H3	1/5
S15	122	Drum Gear Position Sensor (M)	H3	1/5
S16	123	Drum Gear Position Sensor (Y)	I3	1/5
S17	46	Registration Sensor	D9	1/5
S18	6 , 16	Platen Cover Sensor	E5	2/5
S19	9 , 19	Original Length Sensor 3 (APS)	C5	2/5
S20	10 , 20	Original Length Sensor 5 (APS)	D5	2/5
S21	83	By-pass Paper End Sensor	J9	1/5
S22	81	By-pass Paper Size Sensor	H9	1/5
S23	79	By-pass Paper Length Sensor	H9	1/5
S24	72	Paper End Sensor: Tray 1	G9	1/5
S25	73	Paper Overflow Sensor: Tray 1	G9	1/5
S26	70	Paper Feed Sensor: Tray 1	G9	1/5
S27	71	Vertical Transport Sensor: Tray 1	G9	1/5

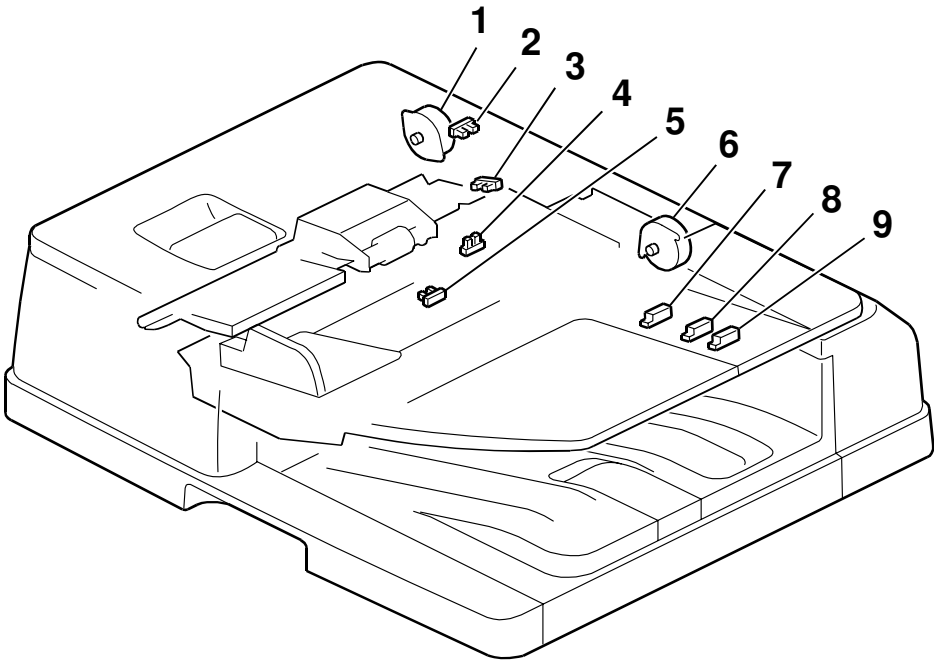
Symbol	Index No.	Description	P to P	Page
Motors				
M1	97	PTR Contact Motor	G13	1/5
M2	8 , 18	Scanner Drive Motor	D5	2/5
M3	34	L2 Lens Positioning Motor (C)	D8	1/5
M4	30	L2 Lens Positioning Motor (M)	D8	1/5
M5	35	L2 Lens Positioning Motor (Y)	D8	1/5
M6	63	Tray1 Lift Motor	C9	1/5
M7	64	Tray2 Lift Motor	B9	1/5
M8	129	Drum/Development Motor (C)	F3	1/5
M9	131	Drum/Development Motor (K)	F3	1/5
M10	127	Drum/Development Motor (M)	F3	1/5
M11	125	Drum/Development Motor (Y)	F3	1/5
M12	32	Polygon Mirror Motor	D8	1/5
M13	99	Registration Motor	A13	1/5
M14	66	Paper Feed Motor	A13	1/5
M15	133	ITB Unit Drive Motor	C13	1/5
M16	85	Pressure Roller Contact Motor	H13	1/5
M17	134	Fusing/Paper Exit Motor	C13	1/5
M18	77	Duplex Inverter Motor	J9	1/5
M19	119	AC Board Cooling Fan	J2	1/5
M20	118	3rd Duct Fan	J2	1/5
M21	112	Airflow Fan (Rear)	K2	1/5
M22	109	Airflow Fan (Front)	K2	1/5
M23	114	2nd Duct Fan	I13	1/5
M24	115	2nd Duct Fan (Lower) (*D143/D144)	K13	1/5
M25	108	Fujing Heater Cooling Fan	I13	1/5
M26	116	Fusing Fan	I13	1/5
M27	107	Paper Exit Fan	I13	1/5
M28	111	Airflow Fan (Middle Rear) (*D143/D144)	J9	1/5
M29	110	Airflow Fan (Middle Front) (*D143/D144)	J9	1/5
M30	117	Toner Tube Cooling Fan (*D143/D144)	K9	1/5
M31	124	Toner Transport Motor	F13	1/5
M32	113	HDD Cooling Fan	E11	2/5
M33	36	ITB Contact Motor	G13	1/5
M34	98	Duplex/By-pass Motor	H9	1/5
Clutches				
MC1	130	Development Clutch (C)	I3	1/5
MC2	132	Development Clutch (K)	I3	1/5
MC3	128	Development Clutch (M)	I3	1/5
MC4	126	Development Clutch (Y)	I3	1/5
MC5	65	Tray1 Paper Feed Clutch	B10	1/5
MC6	67	Tray2 Paper Feed Clutch	B10	1/5
MC7	51	Toner Bottle Clutch (C)	D13	1/5
MC8	48	Toner Bottle Clutch (K)	D13	1/5
MC9	50	Toner Bottle Clutch (M)	D13	1/5
MC10	49	Toner Bottle Clutch (Y)	D13	1/5
MC11	54	Toner Supply Clutch (C)	E14	1/5
MC12	53	Toner Supply Clutch (K)	E14	1/5
MC13	55	Toner Supply Clutch (M)	F14	1/5
MC14	56	Toner Supply Clutch (Y)	F14	1/5
MC15	78	By-pass Feed Clutch	I9	1/5

Symbol	Index No.	Description	P to P	Page
Solenoids				
SOL1	43	ID Sensor Shutter Solenoid	J14	1/5
SOL2	80	By-pass Pick-up Solenoid	I9	1/5
SOL3	74	Pick-up Solenoid: Tray 1	G9	1/5
SOL4	74	Pick-up Solenoid: Tray 2	F9	1/5
SOL5	102	Junction Gate Solenoid	B14	1/5
Switches				
SW1	47	Interlock Switch	J13	1/5
SW2	138	Main Switch	B1	1/5
SW3	96	Right Door Open Switch	B14	1/5
SW4	62	Tray1 Paper Size Switch	D10	1/5
SW5	68	Tray2 Paper Size Switch	D10	1/5
SW6	58	Waste Toner Bottle Set Switch	D10	1/5
Thermistors				
TH1	87	Fusing Thermistor (Center)	D1	1/5
TH2	91	Fusing Thermistor (End)	D1	1/5
TH3	44	PCDU/ITB Thermistor (*D143/D144)	K13	1/5
Thermostats				
TS1	86	Thermostat 1	E1	1/5
TS2	90	Thermostat 2	E1	1/5

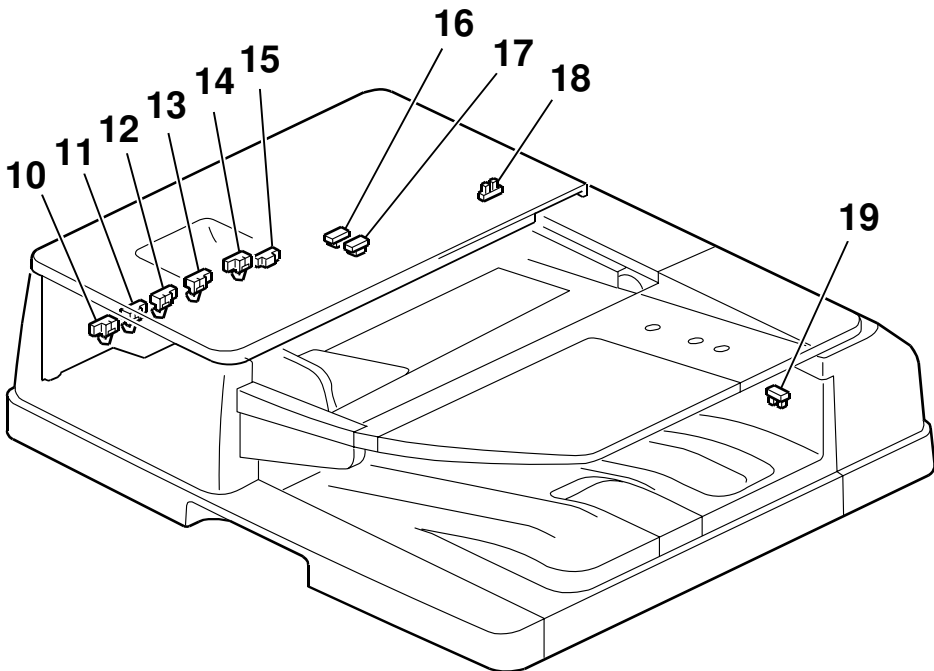
Symbol	Index No.	Description	P to P	Page
Lamps				
L1	2	Exposure Lamp (*DD143/D144)	A6	2/5
L2	12	Exposure Lamp (LED) (*D111/D142)	B7	2/5
L3	92	Fusing Lamp	E1	1/5
Heaters				
H1	- - -	Tray Heater (PFU)	A5	1/5
H2	6	Tray Heater (Main)	A5	1/5
H3	3 , 13	Anti-condensation Heater	A6	1/5
Others				
CO1	- - -	Mechanical Counter (Color) *NA Only	K7	1/5
CO2	- - -	Mechanical Counter (B&W) *NA Only	J7	1/5
OP1	1 , 23	Operation Panel Unit	I7	1/5
HDD1	137	HDD	C11	2/5

D111/D142/D143/D144 ELECTRICAL COMPONENT LAYOUT (4/4)

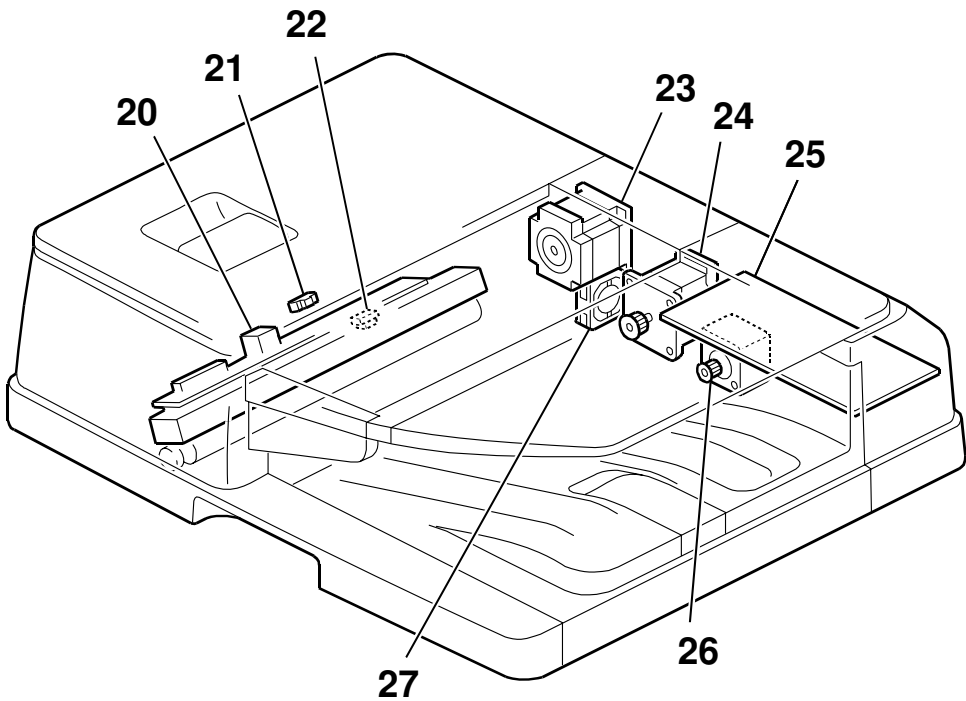
Single Pass ADF (Single Pass ADF Model Only *D143/D144)



D543D201.Wmf



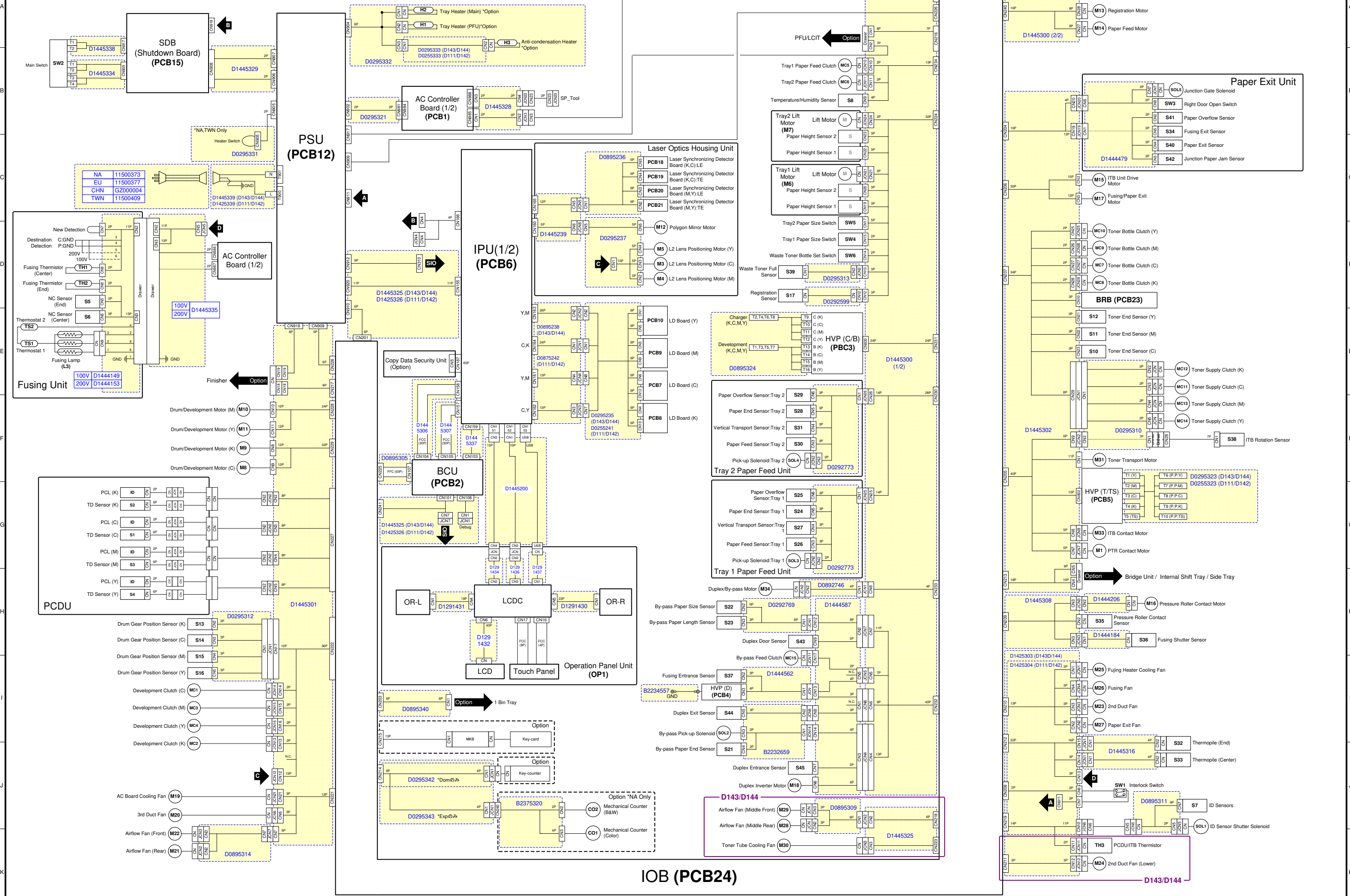
D543D202.Wmf



D543D203.Wmf

Symbol	Index No.	Description	P to P	Page
Motors				
M1	23	Original Feed Motor	B13	5/5
M2	24	Original Transport Motor	B13	5/5
M3	26	Original Exit Motor	C13	5/5
M4	6	Bottom Plate Lift Motor	D13	5/5
M5	1	Original Pick-up Roller Motor	D13	5/5
M6	27	ADF Fan Motor	E13	5/5
Sensors				
S1	10	Original Width Sensor 5	B2	5/5
S2	11	Original Width Sensor 4	B2	5/5
S3	12	Original Width Sensor 3	B2	5/5
S4	13	Original Width Sensor 2	C2	5/5
S5	14	Original Width Sensor 1	C2	5/5
S6	2	Original Pick-up Roller HP Sensor	D2	5/5
S7	15	Interval Sensor	D2	5/5
S8	16	Original Skew Correction Sensor	D2	5/5
S9	17	Original Separation Sensor	E2	5/5
S10	22	Original Exit Sensor	E2	5/5
S11	21	Original Registration Sensor	F2	5/5
S12	4	Original Set Sensor	F2	5/5
S13	5	Bottom Plate HP Sensor	G2	5/5
S14	18	Feed Cover Sensor	G2	5/5
S15	3	Bottom Plate Position Sensor	H2	5/5
S16	7	Original Length Sensor 1	H2	5/5
S17	8	Original Length Sensor 2	H2	5/5
S18	9	Original Length Sensor 3	I2	5/5
S19	19	ADF Lift Sensor	I2	5/5
S20	20	CIS (Contact Image Sensor)	I12	5/5
PCB				
PCB1	25	ADF Control Board	J8	5/5

D111/D142/D143/D144 POINT TO TOINT DIAGRAM (1/5)



D111/D142/D143/D144 POINT TO TOINT DIAGRAM (2/5)

Scanner Unit

- D143/D144**: Lamp Stabilizer (PCB22) (D0295214), Exposure Lamp (L1) (D0295218).
- D111/D142**: LED Control Board (PCB11) (D1425225), SCNB (PCB14) (D1425226), Exposure Lamp (LED) (L2) (D1295541).
- SBU (PCB13)**: SBU (D0295217 (D143/D144), D0255213 (D111/D142), D0295221 (D143/D144), D0255220 (D111/D142)).
- Sensors**: S19 (Original Length Sensor 3 (APS)), S20 (Original Length Sensor 5 (APS)), S9 (Scanner HP Sensor), S18 (Platen Cover Sensor).
- Motors**: M2 (Scanner Drive Motor), M32 (HDD Cooling Fan).
- BCU**: BCU (D1445216 (D143/D144), D0255216 (D111/D142)).
- PSU**: PSU (D1445216 (D143/D144), D0255216 (D111/D142)).
- Option ARDF**: ARDF (D1425219 (D111/D142), D0295212 (D143/D144), D0255215 (D111/D142)).
- Option ARDF**: ARDF (D0295213, D143/D144).
- Single Pass ADF**: CIS (D5435545, D6425555).

SIO (PCB16)

Controller Board (PCB17)

- PCI Option**: PCI Option (CN15, CN16).
- PCI Express**: PCI Express (CN6).
- DIMM**: DIMM 2GB (D143/D144) or DIMM 1GB (D143/D144) (CN14), DIMM 512MB (D111/D142) (CN2).
- HDD (HDD1)**: HDD (HDD1) (CN17, CN21).
- SD**: SD1 (CN12), SD2 (CN13).
- NIC**: NIC (CN10).
- USB DEV**: USB DEV (CN30).
- USB Host**: USB Host (CN9).
- NV-RAM**: NV-RAM (CN5).
- GW FCU-I/F2**: GW FCU-I/F2 (CN526).
- FCU-I/F-C**: FCU-I/F-C (CN527, CN560).
- GW FCU**: GW FCU (CN614, CN608, CN609, CN605, CN603).
- Option**: Option (CN653, CN650, CN662, CN660).
- CCU I/F**: CCU I/F (CN653, CN650).
- LINE2**: LINE2 (CN622, CN622).
- LINE3**: LINE3 (CN622, CN622).

IPU (2/2)

IPU

- Operation Panel Unit**: Operation Panel Unit (CN151, CN152, CN153).
- SBU(CN300)**: SBU(CN300) (CN300).
- Anti-condensation Heater**: Anti-condensation Heater (CN1).
- SIO(CN311)**: SIO(CN311) (CN311, CN311).
- SIO(CN310)**: SIO(CN310) (CN311, CN310).
- Scanner Accessibility *D143/D144 Option**: Scanner Accessibility *D143/D144 Option (D6475235 (NA/TWN), D6475236 (EU/AA CHN)).

D111/D142/D143/D144 POINT TO TOINT DIAGRAM (3/5)

CN No	PCB	Pin No	Signal Name
CN216	IOB	1	N.C.
		2	PFU/LGIT: RXD
		3	PFU/LGIT: TXD
		4	PFU/LGIT: GND
		5	PFU/LGIT: GND
		6	PFU/LGIT: +5V
		7	PFU/LGIT: GND
		A1	Registration Sensor: GND
		A2	Registration Sensor: Detection
		A3	Registration Sensor: +5V
		A4	Waste Toner Full Sensor: GND
		A5	Waste Toner Full Sensor: Detection
		A6	Waste Toner Full Sensor: +5V
		A7	Waste Toner Bottle Set Switch: Detection
		A8	Waste Toner Bottle Set Switch: GND
		A9	Tray1 Paper Size Switch: Detection
CN224	IOB	A10	Tray1 Paper Size Switch: GND
		A11	Tray2 Paper Size Switch 1
		A12	Tray2 Paper Size Switch 2
		A13	Tray2 Paper Size Switch 3
		A14	Tray2 Paper Size Switch: GND
		A15	Tray2 Paper Size Switch 4
		A16	N.C.
		B1	Tray1 LRF Motor: GND
		B2	Tray1 LRF Motor: Paper Height Sensor1
		B3	Tray1 LRF Motor: +5V
		B4	Tray1 LRF Motor: GND
		B5	Tray1 LRF Motor: Paper Height Sensor2
		B6	Tray1 LRF Motor: +5V
		B7	Tray1 LRF Motor: Control (-)
		B8	Tray1 LRF Motor: Control (+)
		B9	Tray2 LRF Motor: GND
CN231	IOB	B10	Tray2 LRF Motor: Paper Height Sensor1
		B11	Tray2 LRF Motor: +5V
		B12	Tray2 LRF Motor: GND
		B13	Tray2 LRF Motor: Paper Height Sensor2
		B14	Tray2 LRF Motor: +5V
		B15	Tray2 LRF Motor: Control (-)
		B16	Tray2 LRF Motor: Control (+)
		1	HVP: CB: Charger AC: K: FB: 1
		2	HVP: CB: Charger AC: C: FB: 2
		3	HVP: CB: Charger AC: M: FB: 3
		4	HVP: CB: Charger AC: Y: FB: 4
		5	HVP: CB: Charger: Filter Reshuffling
		6	HVP: CB: Development: Y: PWM: 4
		7	HVP: CB: Development: M: PWM: 3
		8	HVP: CB: Development: C: PWM: 2
		9	HVP: CB: Development: K: PWM: 1
		10	HVP: CB: CB: SC Search
		11	HVP: CB: GND
		12	HVP: CB: +24VS2
		13	HVP: CB: +24VS2
		14	HVP: CB: GND
		15	HVP: CB: Charger DC: K: PWM: 1
		16	HVP: CB: Charger DC: C: PWM: 2
		17	HVP: CB: Charger DC: M: PWM: 3
		18	HVP: CB: Charger DC: Y: PWM: 4
		19	HVP: CB: Charger AC: K: PWM: 1
		20	HVP: CB: Charger AC: C: PWM: 2
		21	HVP: CB: Charger AC: M: PWM: 3
		22	HVP: CB: Charger AC: Y: PWM: 4
		23	HVP: CB: Charger: Frequency
		24	HVP: CB: Charger: Trigger Signal
CN232	IOB	A1	Duplex Entrance Sensor: GND
		A2	Duplex Entrance Sensor: Detection
		A3	Duplex Entrance Sensor: +5V
		A4	Duplex Inverter Motor: B
		A5	Duplex Inverter Motor: +24VS2
		A6	Duplex Inverter Motor: A
		A7	Duplex Inverter Motor: B
		A8	Duplex Inverter Motor: +24VS2
		A9	Duplex Inverter Motor: A
		A10	By-pass Paper End Sensor: Detection
		A11	By-pass Paper End Sensor: GND
		A12	By-pass Pick-up Solenoid: +24VS2
		A13	By-pass Pick-up Solenoid: Control
		A14	HVP: D: SC Search
		A15	HVP: D: Separation: PWM
		A16	HVP: D: Separation: PWM: AC
CN233	IOB	A17	HVP: D: GND
		A18	HVP: D: +24VS2
		A19	By-pass Feed Clutch: +24VS2
		A20	By-pass Feed Clutch: Control
		B1	Fusing Entrance Sensor: GND
		B2	Fusing Entrance Sensor: Detection
		B3	Fusing Entrance Sensor: +5V
		B4	N.C.
		B5	N.C.
		B6	N.C.
		B7	Fusing Exit Sensor: GND
		B8	Fusing Exit Sensor: Detection
		B9	Fusing Exit Sensor: +5V
		B10	Duplex Door Sensor: GND
		B11	Duplex Door Sensor: Detection
		B12	Duplex Door Sensor: +5V
CN234	IOB	B13	By-pass Paper Length Sensor: GND
		B14	By-pass Paper Length Sensor: Detection
		B15	By-pass Paper Length Sensor: +5V
		B16	By-pass Paper Size Sensor: Detection
		B17	By-pass Paper Size Sensor: Detection1
		B18	By-pass Paper Size Sensor: GND
		B19	By-pass Paper Size Sensor: Detection4
		B20	By-pass Paper Size Sensor: Detection3

CN No	PCB	Pin No	Signal Name
CN233	IOB	1	Duplex/By-pass Motor: A
		2	Duplex/By-pass Motor: A
		3	Duplex/By-pass Motor: B
		4	Duplex/By-pass Motor: B
CN240	IOB	1	Paper Feed Motor: +24VS1
		2	Paper Feed Motor: GND
		3	Paper Feed Motor: +5V
		4	Paper Feed Motor: Brake
CN240	IOB	5	N.C.
		6	Paper Feed Motor: PWM
		7	Paper Feed Motor: Rotatory direction
		8	Paper Feed Motor: Encoder B
		9	Paper Feed Motor: Encoder A
		10	Registration Motor: GND
		11	Registration Motor: +5V
		12	Registration Motor: Brake
		13	Registration Motor: PWM
		14	Registration Motor: Rotatory direction
		15	Registration Motor: Encoder B
		16	Registration Motor: Encoder A
CN234	IOB	1	PSU: +5VE
		2	PSU: SBU Power ON Signal
		3	PSU: +24VS2
		4	PSU: Cooling Fan: Control
		5	PSU: +5V Power Control
		6	Temperature/Humidity Sensor: Temperature: FB
		7	Temperature/Humidity Sensor: GND
		8	Temperature/Humidity Sensor: Humidity: FB
		9	Temperature/Humidity Sensor: +5V
		10	Tray1 Paper Feed Clutch: +24VS2
		11	Tray1 Paper Feed Clutch: Control
		12	Tray2 Paper Feed Clutch: +24VS2
		13	Tray2 Paper Feed Clutch: Control
		A1	Pick-up Solenoid: Tray 1: +24VS2
		A2	Pick-up Solenoid: Tray 1: Control
CN230	IOB	A3	Paper Feed Sensor: Tray 1: GND
		A4	Paper Feed Sensor: Tray 1: Detection
		A5	Paper Feed Sensor: Tray 1: +5V
		A6	Vertical Transport Sensor: Tray 1: GND
		A7	Vertical Transport Sensor: Tray 1: Detection
		A8	Vertical Transport Sensor: Tray 1: +5V
		A9	Paper End Sensor: Tray 1: GND
		A10	Paper End Sensor: Tray 1: Detection
		A11	Paper End Sensor: Tray 1: +5V
		A12	Paper Overflow Sensor: Tray 1: GND
		A13	Paper Overflow Sensor: Tray 1: Detection
		A14	Paper Overflow Sensor: Tray 1: +5V
		B1	Pick-up Solenoid: Tray 2: +24VS2
		B2	Pick-up Solenoid: Tray 2: Control
		B3	Paper Feed Sensor: GND
CN230	IOB	B4	Paper Feed Sensor: Detection
		B5	Paper Feed Sensor: +5V
		B6	Vertical Transport Sensor: GND
		B7	Vertical Transport Sensor: Detection
		B8	Vertical Transport Sensor: +5V
		B9	Paper End Sensor: Tray 2: GND
		B10	Paper End Sensor: Tray 2: Detection
		B11	Paper End Sensor: Tray 2: +5V
		B12	Paper Overflow Sensor: Tray 2: GND
		B13	Paper Overflow Sensor: Tray 2: Detection
		B14	Paper Overflow Sensor: Tray 2: +5V
CN239	IOB	1	AC Control Board: Relay Signal
		2	AC Control Board: Zero Cross Signal
		3	AC Control Board: Fusing HT: Relay 24V
		4	AC Control Board: GND
		5	AC Control Board: HT2: 1/2/7/2: Control
		6	AC Control Board: HT1: 1/2/7/2: Control
		7	AC Control Board: HT3: 1/2/7/2: Control
		8	AC Control Board: Relay Signal2
		9	AC Control Board: Zero Cross Signal3
		10	AC Control Board: IH: Voltage: FB
CN221	IOB	1	3rd Duct Fan: +24V
		2	3rd Duct Fan: Lock
		3	3rd Duct Fan: Control
		4	Airflow Fan (Front): +24V
		5	Airflow Fan (Front): Lock
		6	Airflow Fan (Front): Control
		7	Airflow Fan (Rear): +24V
		8	Airflow Fan (Rear): Lock
		9	Airflow Fan (Rear): Control
		10	AC Board Cooling Fan: +24V
		11	AC Board Cooling Fan: Lock
		12	AC Board Cooling Fan: Control

CN No	PCB	Pin No	Signal Name
CN222	IOB	A1	Drum Gear Position Sensor: K: GND
		A2	Drum Gear Position Sensor: K: Detection
		A3	Drum Gear Position Sensor: K: +5V
		A4	Drum Gear Position Sensor: C: GND
		A5	Drum Gear Position Sensor: C: Detection
		A6	Drum Gear Position Sensor: C: +5V
		A7	Drum Gear Position Sensor: M: GND
		A8	Drum Gear Position Sensor: M: Detection
		A9	Drum Gear Position Sensor: M: +5V
		A10	Drum Gear Position Sensor: Y: GND
		A11	Drum Gear Position Sensor: Y: Detection
		A12	Drum Gear Position Sensor: Y: +5V
		A13	Development Clutch: C: +24VS2
		A14	Development Clutch: C: Control
		A15	Development Clutch: M: +24VS2
		A16	Development Clutch: M: Control
CN227	IOB	A17	Development Clutch: Y: +24VS2
		A18	Development Clutch: Y: Control
		B1	Development Clutch: K: +24VS2
		B2	Development Clutch: K: Control
		B3	N.C.
		B4	L2 Lens Positioning Motor: C: A
		B5	L2 Lens Positioning Motor: C: B
		B6	L2 Lens Positioning Motor: C: +24V
		B7	L2 Lens Positioning Motor: C: B
		B8	L2 Lens Positioning Motor: C: A
		B9	L2 Lens Positioning Motor: M: A
		B10	L2 Lens Positioning Motor: M: B
		B11	L2 Lens Positioning Motor: M: +24V
		B12	L2 Lens Positioning Motor: M: B
		B13	L2 Lens Positioning Motor: M: A
		B14	L2 Lens Positioning Motor: Y: A
CN227	IOB	B15	L2 Lens Positioning Motor: Y: B
		B16	L2 Lens Positioning Motor: Y: A
		A1	PCU: K: PCL: +24VS2
		A2	PCU: K: PCL: Control
		A3	PCU: K: TD Sensor: SCL
		A4	PCU: K: TD Sensor: SDA
		A5	PCU: K: TD Sensor: PWM
		A6	PCU: K: TD Sensor: FB
		A7	PCU: K: TD Sensor: GND
		A8	PCU: K: GND
		A9	PCU: C: PCL: +24VS2
		A10	PCU: C: PCL: Control
		A11	PCU: C: TD Sensor: SCL
		A12	PCU: C: TD Sensor: SDA
		A13	PCU: C: TD Sensor: PWM
		A14	PCU: C: TD Sensor: FB
CN227	IOB	A15	PCU: C: TD Sensor: GND
		A16	PCU: C: GND
		B1	PCU: M: PCL: +24VS2
		B2	PCU: M: PCL: Control
		B3	PCU: M: TD Sensor: SCL
		B4	PCU: M: TD Sensor: SDA
		B5	PCU: M: TD Sensor: PWM
		B6	PCU: M: TD Sensor: +5V Power
		B7	PCU: M: TD Sensor: FB
		B8	PCU: M: GND
		B9	PCU: Y: PCL: +24VS2
		B10	PCU: Y: PCL: Control
		B11	PCU: Y: TD Sensor: SCL
		B12	PCU: Y: TD Sensor: SDA
		B13	PCU: Y: TD Sensor: PWM
		B14	PCU: Y: TD Sensor: +5V Power
CN227	IOB	B15	PCU: Y: TD Sensor: FB
		B16	PCU: Y: GND
CN228	IOB	1	Drum/Development Motor: M: Gain
		2	Drum/Development Motor: M: Clock
		3	Drum/Development Motor: M: Brake
		4	Drum/Development Motor: M: Rotatory direction
		5	Drum/Development Motor: M: Start
		6	Drum/Development Motor: M: Lock
		7	Drum/Development Motor: M: +5V
		8	Drum/Development Motor: M: GND
		9	Drum/Development Motor: M: GND
		10	Drum/Development Motor: M: GND
		11	Drum/Development Motor: M: +24VS2
		12	Drum/Development Motor: M: +24VS2
		13	N.C.
		14	Drum/Development Motor: Y: Gain
		15	Drum/Development Motor: Y: Clock
		16	Drum/Development Motor: Y: Brake
CN228	IOB	17	Drum/Development Motor: Y: Rotatory direction
		18	Drum/Development Motor: Y: Start
		19	Drum/Development Motor: Y: Lock
		20	Drum/Development Motor: Y: +5V
		21	Drum/Development Motor: Y: GND
		22	Drum/Development Motor: Y: GND
		23	Drum/Development Motor: Y: GND
		24	Drum/Development Motor: Y: +24VS2
		25	Drum/Development Motor: Y: +24VS2
		26	N.C.

CN No	PCB	Pin No	Signal Name
CN229	IOB	1	Drum/Development Motor: K: Gain
		2	Drum/Development Motor: K: Clock
		3	Drum/Development Motor: K: Brake
		4	Drum/Development Motor: K: Rotatory direction
		5	Drum/Development Motor: K: Start
		6	Drum/Development Motor: K: Lock
		7	Drum/Development Motor: K: +5V
		8	Drum/Development Motor: K: GND
		9	Drum/Development Motor: K: GND
		10	Drum/Development Motor: K: GND

D111/D142/D143/D144 POINT TO TOINT DIAGRAM (4/5)

CN No	PCB	Pin No	Signal Name
CN150	IFU	A1	Signal Ground
		A2	Second Scanning Gate
		A3	Signal Ground
		A4	Serial Transmission Data
		A5	Serial Transfer Clock
		A6	LVDS Output Data 2-1(-)
		A7	LVDS Output Data 2-2(-)
		A8	LVDS Output Data 2-3(-)
		A9	LVDS Transfer Clock2(-)
		A10	Signal Ground
		A11	LVDS Output Data 1-2(-)
		A12	LVDS Output Data 1-3(-)
		A13	Signal Ground
		A14	Signal Ground
		A15	Connect Detection
		B1	Signal Ground
		B2	Signal Ground
		B3	Signal Ground
		B4	LVDS Output Data 1-3(+)
		B5	LVDS Output Data 1-2(+)
		B6	Signal Ground
		B7	LVDS Transfer Clock2(+)
		B8	LVDS Output Data 2-3(+)
		B9	LVDS Output Data 2-2(+)
		B10	LVDS Output Data 2-1(+)
CN151	IFU	B11	Serial CS
		B12	Serial Reception Data
		B13	Second Scanning Gate
		B14	Line Sink
		B15	Signal Ground
		1	GND
		2	GND
		3	POKLVDS
		4	LDET_N
		5	ENG_EN_N
		6	PON_ENG_N
		7	PW_SW_N
		8	POK_USB
CN152	IFU	9	OPE_CTL_ERR_N
		10	5VE_LPS
		11	5VE_LPS
		12	5VE_LPS
		13	24V
		1	GND
		2	OPREQ
		3	OPRXD-
		4	OPRXD+
		5	OPRCK-
		6	OPRCK+
		7	OPTCK-
CN153	IFU	8	OPTCK+
		9	OPTXD-
		10	OPTXD+
		1	LPS
		2	USB0D-
		3	USB0D+
		4	GND
CN161	IFU	1	Yellow LD2 Data +
		2	Yellow LD2 Data -
		3	GND
		4	GND
		5	Yellow LD1 Data -
		6	Yellow LD1 Data +
		7	Magenta LD2 Data +
		8	Magenta LD2 Data -
		9	GND
		10	GND
		11	Magenta LD1 Data -
		12	Magenta LD1 Data +
CN162	IFU	13	N/C
		1	Black LD2 Data +
		2	Black LD2 Data -
		3	GND
		4	GND
		5	Black LD1 Data -
		6	Black LD1 Data +
		7	Cyan LD2 Data +
		8	Cyan LD2 Data -
		9	GND
		10	GND
		11	Cyan LD1 Data -
		12	Cyan LD1 Data +

CN No	PCB	Pin No	Signal Name
CN163	IFU	1	LD Power (+5VS)
		2	Yellow : LD2 : Quantity Light Adjustment DAC
		3	Yellow : LD2 : APC Control
		4	Yellow : LD2 : LD OFF
		5	GND
		6	Harness: VLDERR/BICU GND
		7	Yellow : LD Error Search
		8	GND
		9	Yellow : LD1 LD OFF
		10	Yellow : LD1 : APC Control
		11	Yellow : LD1 : Quantity Light Adjustment DAC
		12	LD Power (+5VS)
		13	N/C
		14	LD Power (+5VS)
		15	Magenta : LD2 : Quantity Light Adjustment DAC
		16	Magenta : LD2 : APC Control
		17	Magenta : LD2 LD OFF
		18	GND
		19	LD5V Power Error Search
		20	Magenta : LD Error Search
		21	GND
		22	Magenta : LD1 LD OFF
		23	Magenta : LD1 : APC Control
		24	Magenta : LD1 : Quantity Light Adjustment DAC
		25	LD Power (+5VS)
CN164	IFU	26	N/C
		1	LD Power (+5VS)
		2	Cyan : LD2 : Quantity Light Adjustment DAC
		3	Cyan : LD2 : APC Control
		4	Cyan : LD2 LD OFF
		5	GND
		6	n-2X : VLDERR/BICU GND
		7	Cyan : LD Error Search
		8	GND
		9	Cyan : LD1 LD OFF
		10	Cyan : LD1 : APC Control
		11	Cyan : LD1 : Quantity Light Adjustment DAC
CN165	IFU	12	LD Power (+5VS)
		13	LD Power (+5VS)
		14	Black : LD2 : Quantity Light Adjustment DAC
		15	Black : LD2 : APC Control
		16	Black : LD2 LD OFF
		17	GND
		18	n-2X : VLDERR/BICU GND
		19	Black : LD Error Search
		20	GND
		21	Black : LD1 LD OFF
		22	Black : LD1 : APC Control
CN166	IFU	23	Black : LD1 : Quantity Light Adjustment DAC
		24	LD Power (+5VS)
		1	Laser Synchronizing Detector B (M.Y.): TE Sig
CN167	IFU	2	Power
		3	GND
		4	Laser Synchronizing Detector B (M.Y.): LE Sig
		5	Power
		6	GND
		7	Laser Synchronizing Detector B (K.C.): TE Sig
		8	Power
		9	GND
		10	Laser Synchronizing Detector B (K.C.): LE Sig
		11	Power
		12	GND
CN168	IFU	1	Power
		2	GND
		3	Polygon Mirror Motor :ON
		4	Polygon Mirror Motor : Ready
		5	Polygon Mirror Motor : Clock
		1	REON_DC_N
		2	5VE
		3	ACSWON_N
		4	GND
CN2	IFU (Single Pass)	A1	GND
		A2	E_SDC-
		A3	E_SDD-
		A4	E_SDE-
		A5	ESCLK-
		A6	E_SDA-
		A7	E_SDB-
		A8	GND
		A9	O_SDC-
		A10	O_SDD-
		A11	O_SDE-
		A12	OSCLK-
		A13	O_SDA-
		A14	O_SDB-
		A15	GND
		B1	GND
		B2	O_SDB+
		B3	O_SDA+
		B4	OSCLK+
		B5	O_SDE+
		B6	O_SDD+
		B7	O_SDC+
		B8	GND
		B9	E_SDB+
		B10	E_SDA+
		B11	ESCLK+
		B12	E_SDE+
		B13	E_SDD+
		B14	E_SDC+
		B15	GND

CN No	PCB	Pin No	Signal Name
CN101	BCU	A1	GND
		A2	ADF : UART Transmission
		A3	ADF : UART Reception
		A4	ADF : Scanner Gate Signal
		A5	Scanner Drive Motor : Error Signal
		A6	Scanner Drive Motor : Enabling Signal
		A7	Scanner Drive Motor : Mode 1 Signal
		A8	Scanner Drive Motor : Mode 2 Signal
		A9	Scanner Drive Motor : Clock Signal
		A10	Scanner Drive Motor : Rotatory direction Signal
		A11	Scanner Drive Motor : Reset Signal
		A12	Scanner Drive Motor : Standard Voltage1 Signal
		A13	Scanner Drive Motor : Standard Voltage2 Signal
		A14	Scanner Drive Motor : Standard Voltage3 Signal
		A15	GND
		B1	GND
		B2	Scanner (SBU) Power ON Signal
		B3	LED Error Signal
		B4	Lamp ON Signal
		B5	Platen Cover Sensor Signal
		B6	Scanner HP Sensor Signal
		B7	Original Size 5 Detection Signal
		B8	Unused
		B9	Original Size 3 Detection Signal
		B10	Original Size 5 Detection Signal
		B11	Original Size 3 Detection Signal
CN108	BCU	B12	Original Size Detection ON Signal
		B13	Return Factor Sensor Power ON Signal
		B14	ADF Original Set Detection Signal
		B15	GND
CN104	BCU	1	SynchronizationSerial Transfer Clock
		2	SynchronizationSerialCS
		3	SynchronizationSerial Reception Data
		4	SynchronizationSerial Transmission Data
		5	Standard white board domain Effective Signal
		6	Manuscript reading domain Effective Signal
		7	GND
		8	LVDS OE Control (CS)
		9	LVDS OE Control (SBU)
		10	GND Error Signal
		11	ADF Original Set Detection Signal
		12	Registration Sensor Signal
		13	GND
		14	Return Factor Sensor Power ON Signal
		15	IFU Interrupt (LED/SICLY)
		16	Normal Mode Up
		17	S2M Reset
		18	FUKKI Signal
		19	GND
		20	SLEEP Signal
		21	M2P Reset
		22	Trash Detection Signal
		23	PSU Power Control Signal
		24	LED Error Signal
		25	GND
		26	Synchronization Serial Reception Data
		27	Synchronization Serial Mode
		28	Synchronization Serial Transmission Data
		29	Synchronization Serial CS
		30	Synchronization Serial Transfer Clock

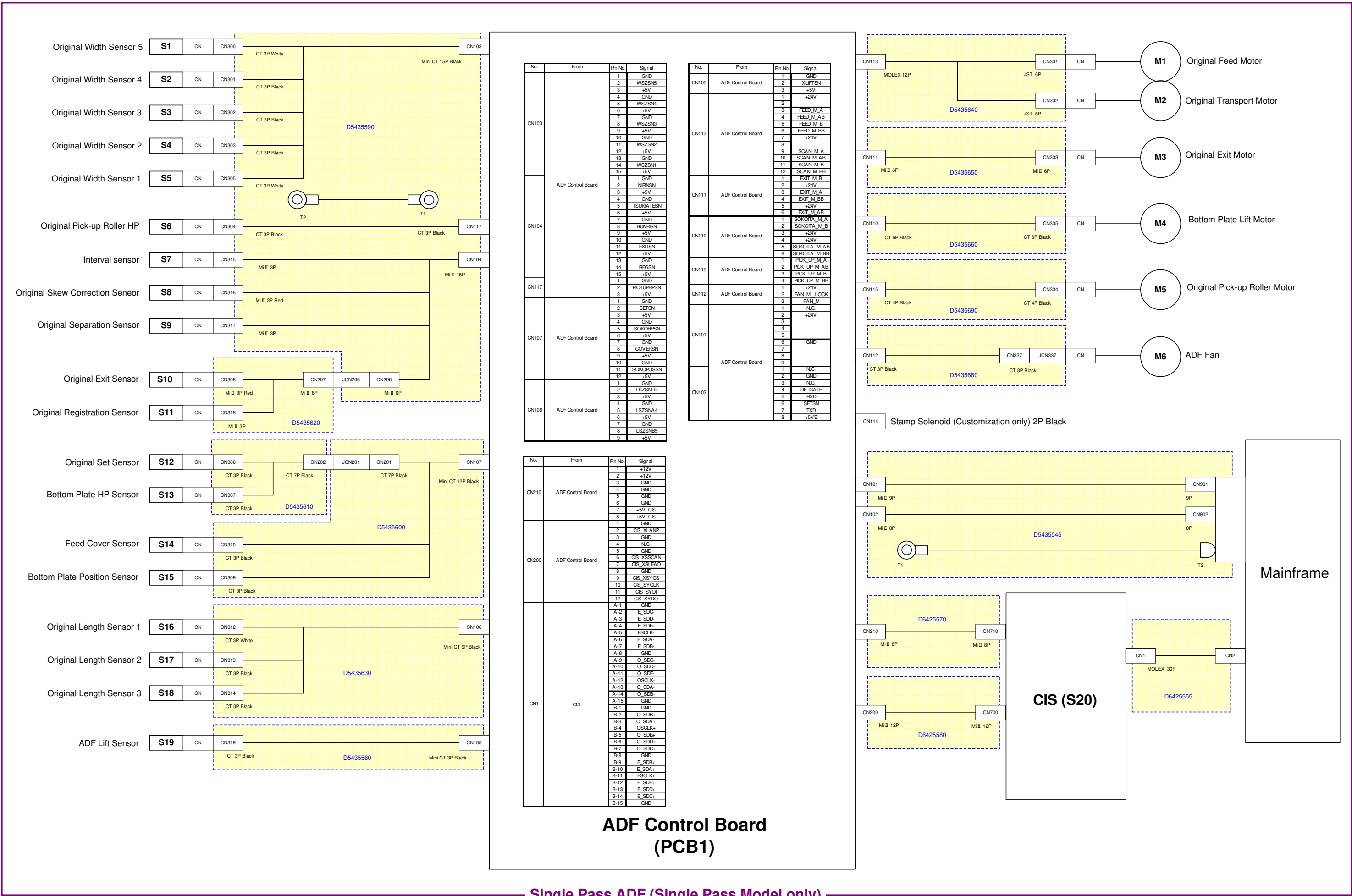
CN No	PCB	Pin No	Signal Name
CN105	BCU	1	Chip Select0 Signal (LYRA)
		2	Chip Select1 Signal (Sisly)
		3	Chip Select2 Signal (Not)
		4	Chip Select3 Signal (Not)
		5	Chip Select4 Signal (R)
		6	Chip Select5 Signal (GIB)
		7	GND
		8	Address Bus 14
		9	Address Bus 15
		10	Address Bus 16
		11	Address Bus 17
		12	Address Bus 18
		13	Address Bus 19
		14	Address Bus 20
		15	Address Bus 21
		16	Address Bus 22
		17	GND
		18	Address Bus 23
		19	Address Bus 24
		20	Address Bus 25
		21	Address Bus 26
		22	Address Bus 27
		23	Address Bus 28
		24	Address Bus 29
		25	Address Bus 30
		26	GND
		27	Data Bus 0
		28	Data Bus 1
		29	Data Bus 2
		30	Data Bus 3
CN103	BCU	31	Data Bus 4
		32	Data Bus 5
		33	Data Bus 6
		34	Data Bus 7
		35	GND
		36	Data Bus 8
		37	Data Bus 9
		38	Data Bus 10
		39	Data Bus 11
		40	Data Bus 12
		41	Data Bus 13
		42	Data Bus 14
		43	Data Bus 15
		44	GND
		45	Address Bus 31
		46	IFU Lead Signal
		47	IFU Light Signal
		48	Address Latch Enable
		49	Unused
		50	GND
		1	5V
		2	3.3V
		3	GND

CN No	PCB	Pin No	Signal Name
CN909	SDB	1	AC-N
		2	AC-N-ON
		3	AC-L
		4	AC-L-ON
CN917	SDB	1	ACSWON_N
		2	GND

CN No	PCB	Pin No	Signal Name
CN988	AC Control Board	1	AC Control Board : Relay SP_tool : +24V
		2	AC Control Board : Relay SP_tool : TRG
CN986	AC Control Board	1	HT1/2 4/L
		2	HT1/N
CN987	AC Control Board	1	HT2/N
		2	HT4/N

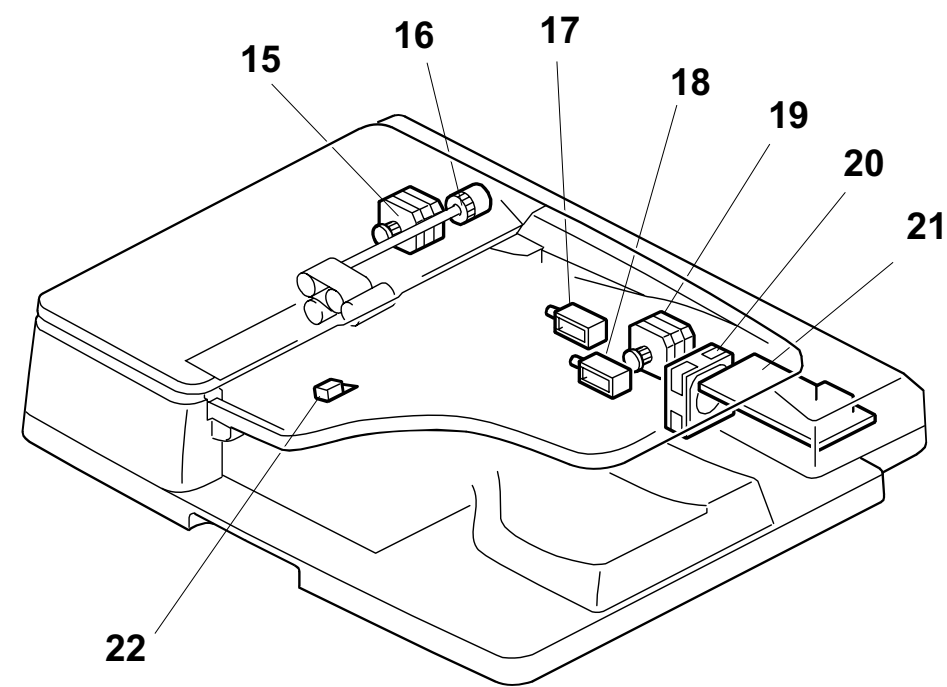
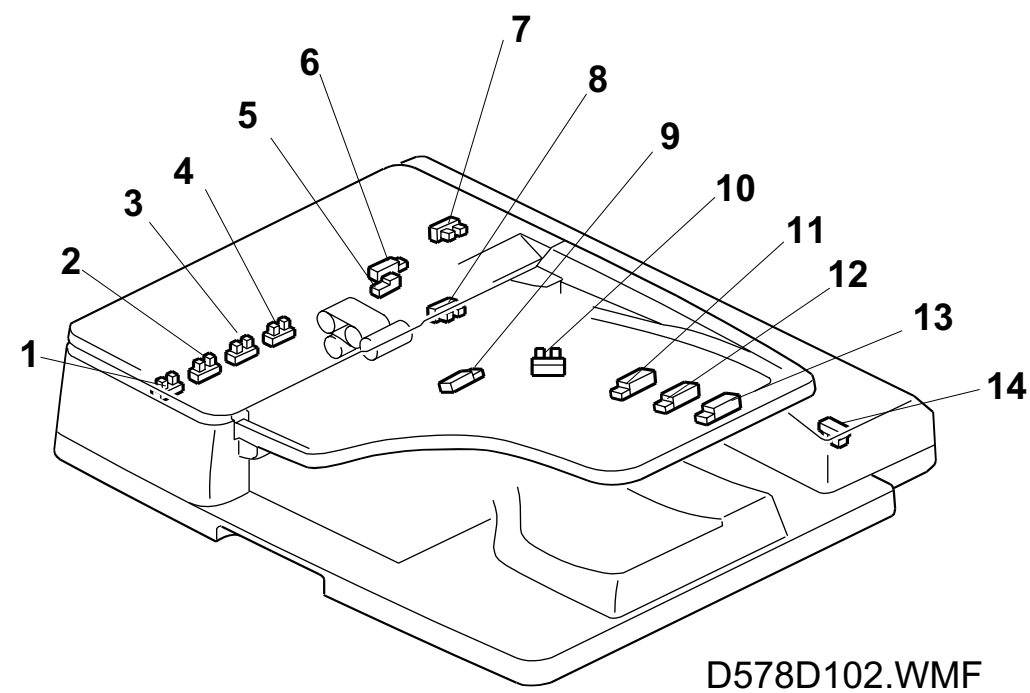
CN No	PCB	Pin No	Signal Name	
T1	HVP (C/B)	T16	Development : Y	
T2		T12	Charger : Y	
T3		T15	Development : M	
T4		T11	Charger : M	
T5		T14	Development : C	
T6		T10	Charger : C	
T7		T13	Development : K	
T8		T9	Charger : K	
T1		HVP (T/TS)	T6	T : Y
T2			T7	T : C
T3	T8		T : M	
T4	T9		T : K	
T5	T10		TS	

D111/D142/D143/D144 POINT TO TOINT DIAGRAM (5/5)



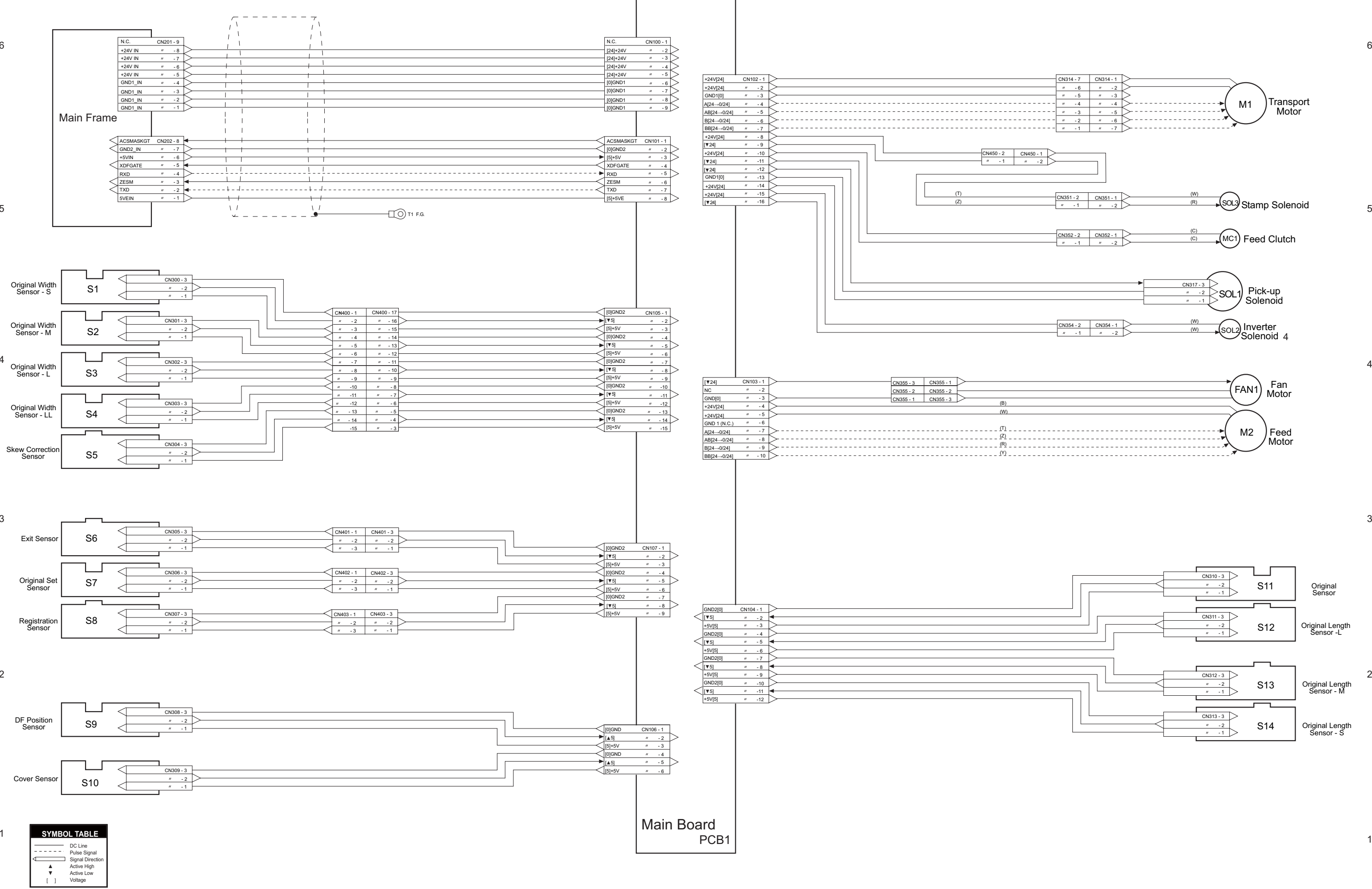
Single Pass ADF (Single Pass Model only)

ARDF(D578) ELECTRICAL COMPONENT LAYOUT

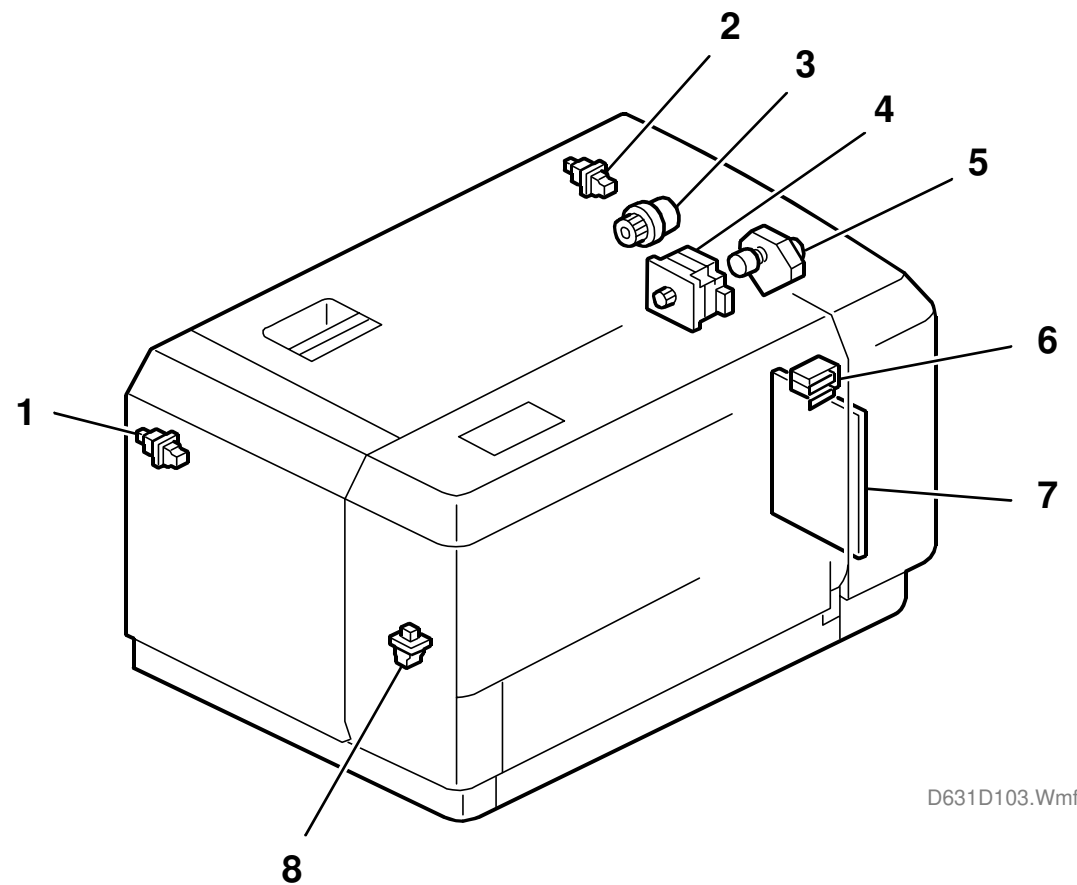


Symbol	Name	Index No.	P to P
Motors			
M1	Transport	15	I6
M2	Feed	19	I4
Sensors			
S1	Original Width S	4	A4
S2	Original Width M	3	A4
S3	Original Width L	2	A4
S4	Original Width LL	1	A4
S5	Skew Correction	5	A3
S6	Exit	9	A3
S7	Original Set	8	A3
S8	Registration	6	A2
S9	DF Position	14	A2
S10	Cover	7	A1
S11	Original	10	I3
S12	Original Length L	13	I2
S13	Original Length M	12	I2
S14	Original Length S	11	I2
Solenoids			
SOL1	Pick-up	17	H4
SOL2	Inverter	18	H4
SOL3	Stamp	22	H5
Magnetic Clutches			
MC1	Feed	16	H5
PCBs			
PCB1	Main Board	21	E1-6
Fan			
FAN1	Fan Motor	20	I4

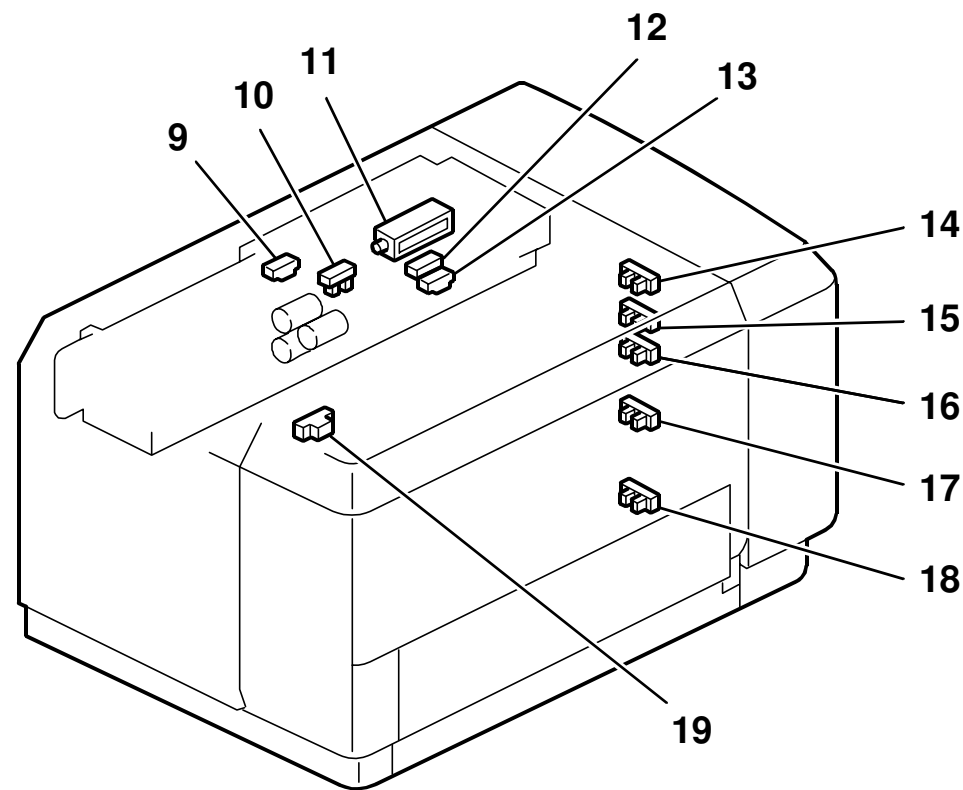
D578 POINT TO POINT DIAGRAM



LCIT (D631) ELECTRICAL COMPONENT LAYOUT



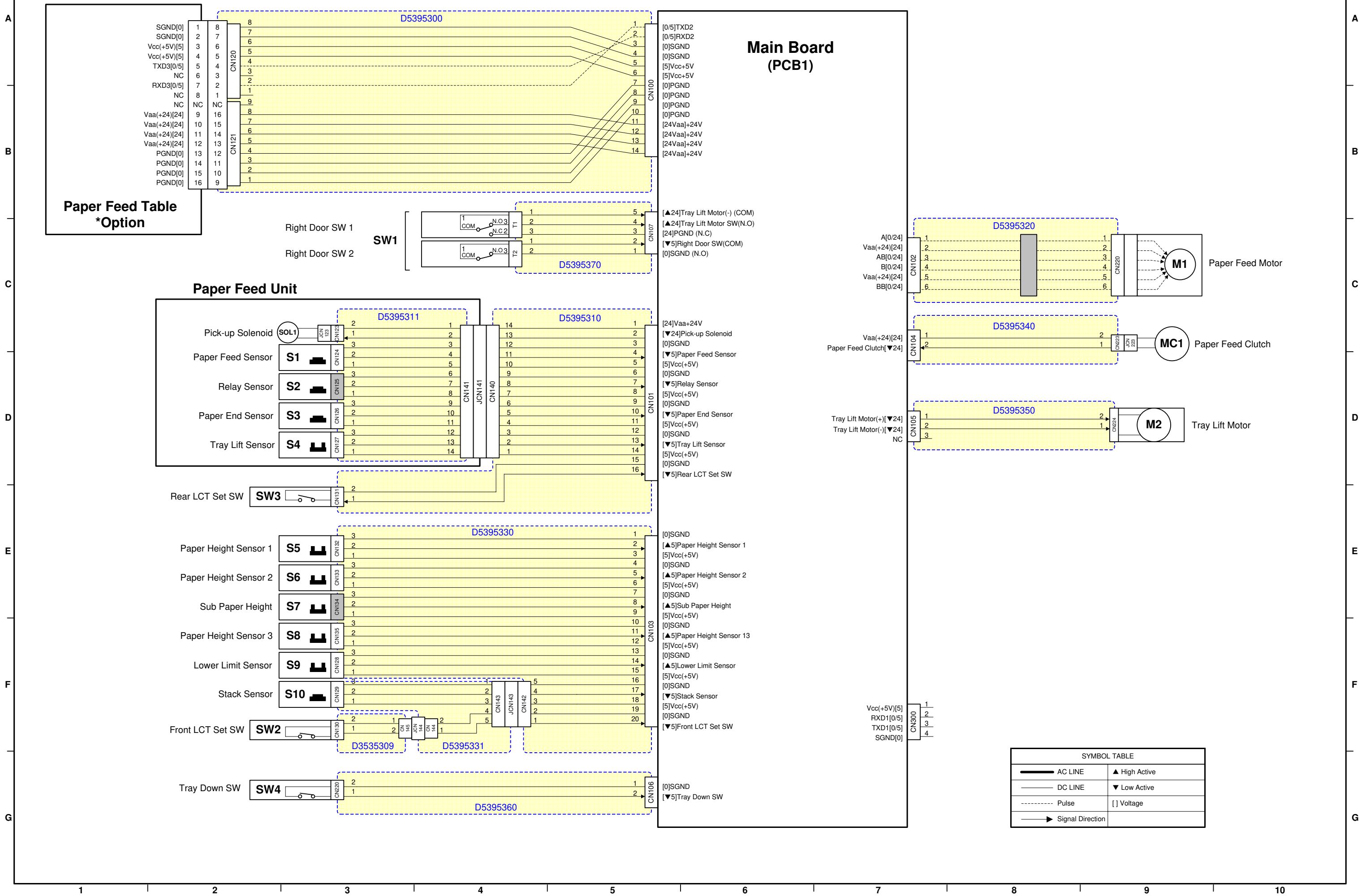
D631D103.Wmf



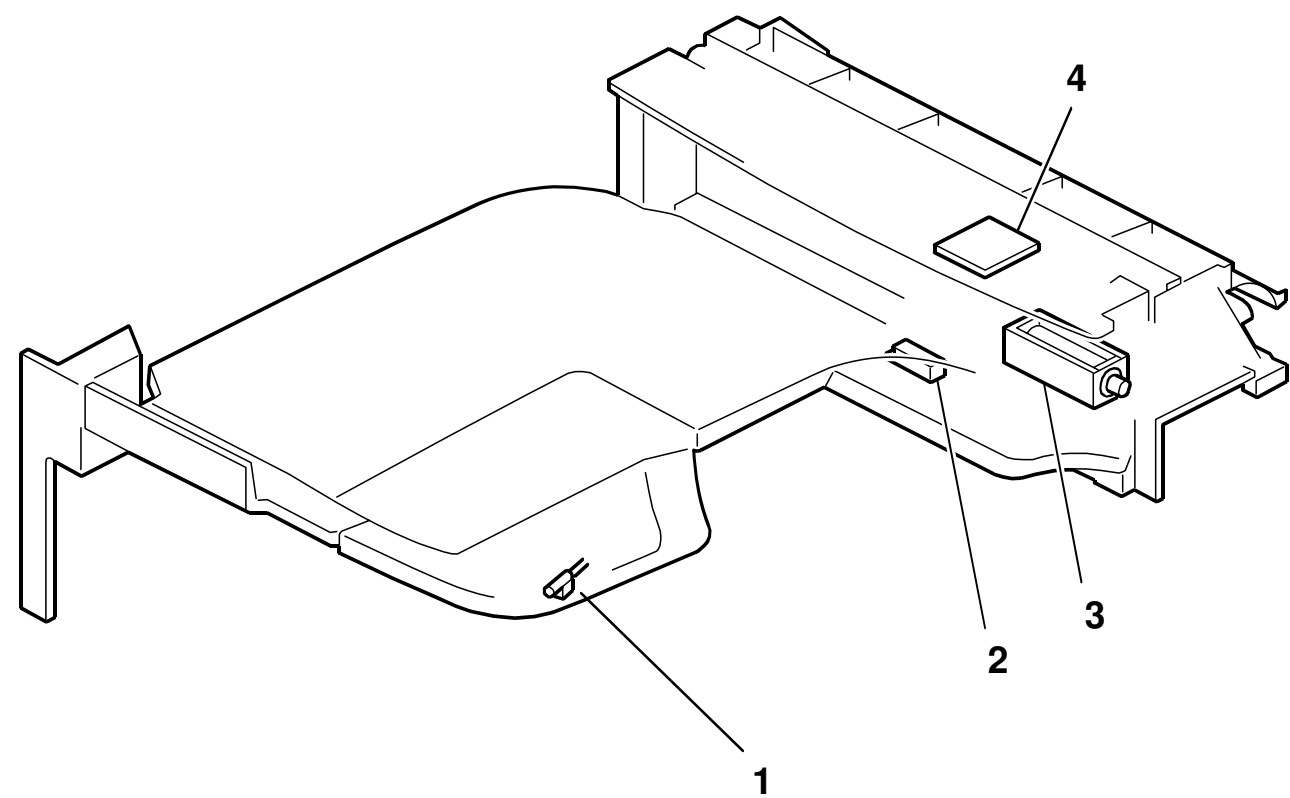
D631D104.Wmf

Symbol	Index No.	Description	P to P
Motors			
M1	4	Paper Feed Motor	C9
M2	5	Tray Lift Motor	C9
Magnetic Clutche			
MC1	3	Paper Feed Clutch	D9
PCB			
PCB1	7	Main Board	A6
Sensors			
S1	12	Paper Feed Sensor	D3
S2	9	Relay Sensor	D3
S3	13	Paper End Sensor	D3
S4	10	Tray Lift Sensor	D3
S5	14	Paper Height Sensor 1	E3
S6	15	Paper Height Sensor 2	E3
S7	16	Sub Paper Height	E3
S8	17	Paper Height Sensor 3	F3
S9	18	Lower Limit Sensor	F3
S10	19	Stack Sensor	F3
Solenoid			
SOL1	11	Pick-up Solenoid	C2
Switches			
SW1	6	Right Door SW 1,2	C4
SW2	1	Front LCT Set SW	F3
SW3	2	Rear LCT Set SW	E3
SW4	8	Tray Down SW	G3

LCIT (D631) POINT TO POINT DIAGRAM



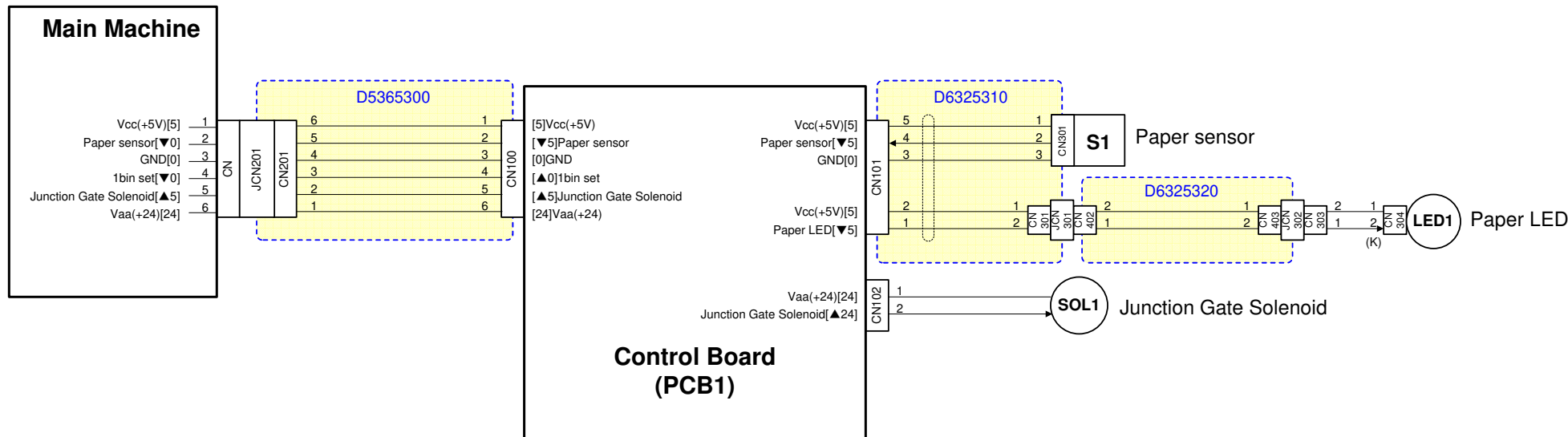
1 Bin Tray (D632) ELECTRICAL COMPONENT LAYOUT



D632D102.Wmf

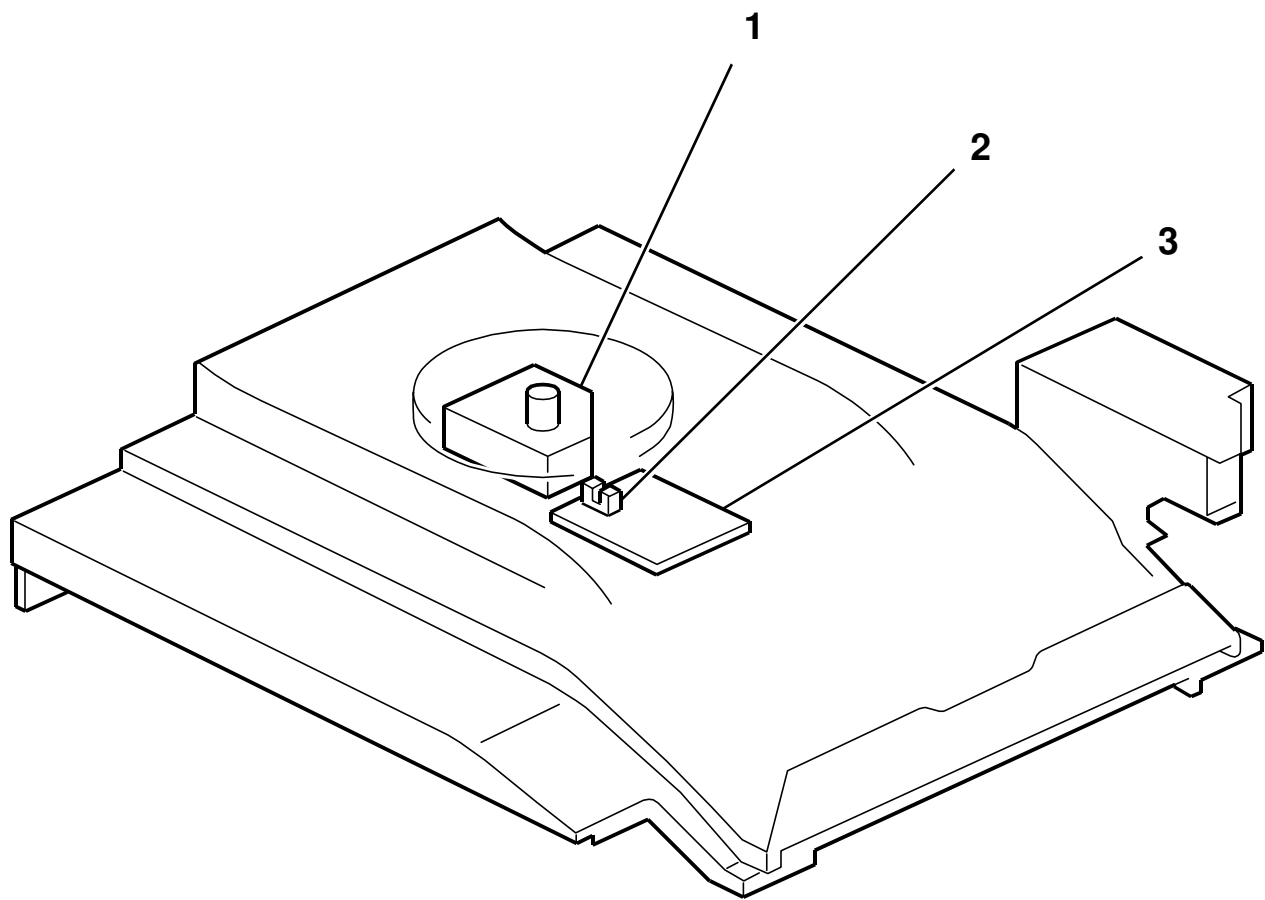
Symbol	Index No.	Description	P to P
PCB			
PCB1	4	Control Board	D5
Sensor			
S1	2	Paper sensor	C7
Solenoid			
SOL1	3	Junction Gate Solenoid	D7
Other			
LED1	1	Paper LED	D10

1 Bin Tray (D632) POINT TO POINT DIAGRAM



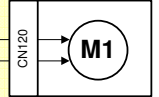
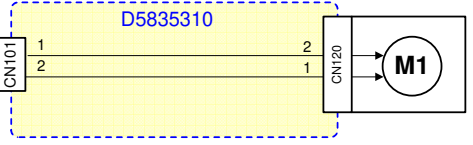
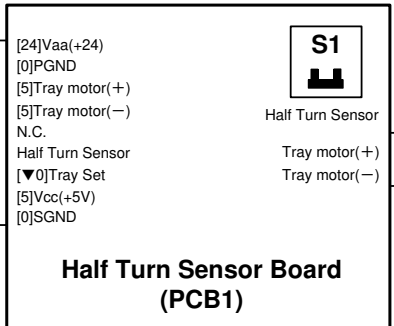
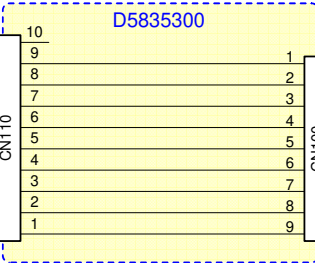
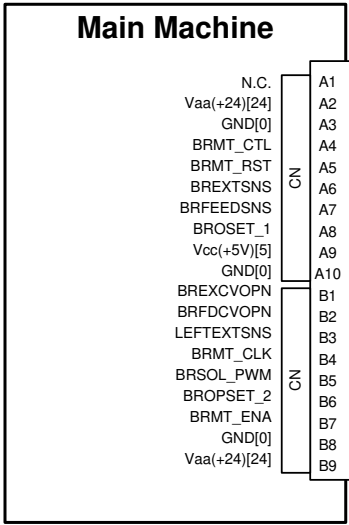
SYMBOL TABLE	
— AC LINE	▲ High Active
— DC LINE	▼ Low Active
--- Pulse	[] Voltage
➡ Signal Direction	

Internal Shift Tray (D633) ELECTRICAL COMPONENT LAYOUT



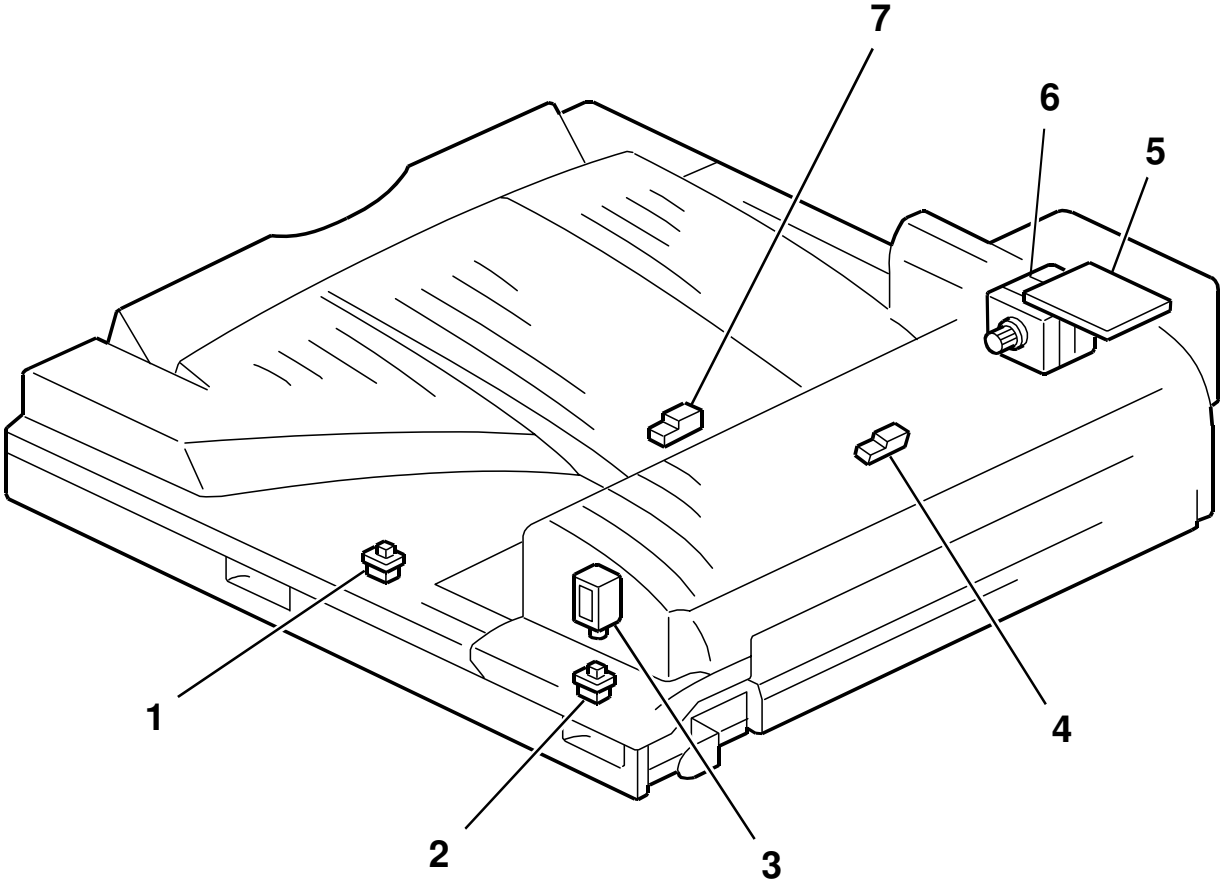
Symbol	Index No.	Description	P to P
Motor			
M1	1	Tray Motor	D9
PCB			
PCB1	3	Half Turn Sensor Board	D6
Sensor			
S1	2	Paper sensor	C7

Internal Shift Tray (D633) POINT TO POINT DIAGRAM



SYMBOL TABLE	
— AC LINE	▲ High Active
— DC LINE	▼ Low Active
--- Pulse	[] Voltage
→ Signal Direction	

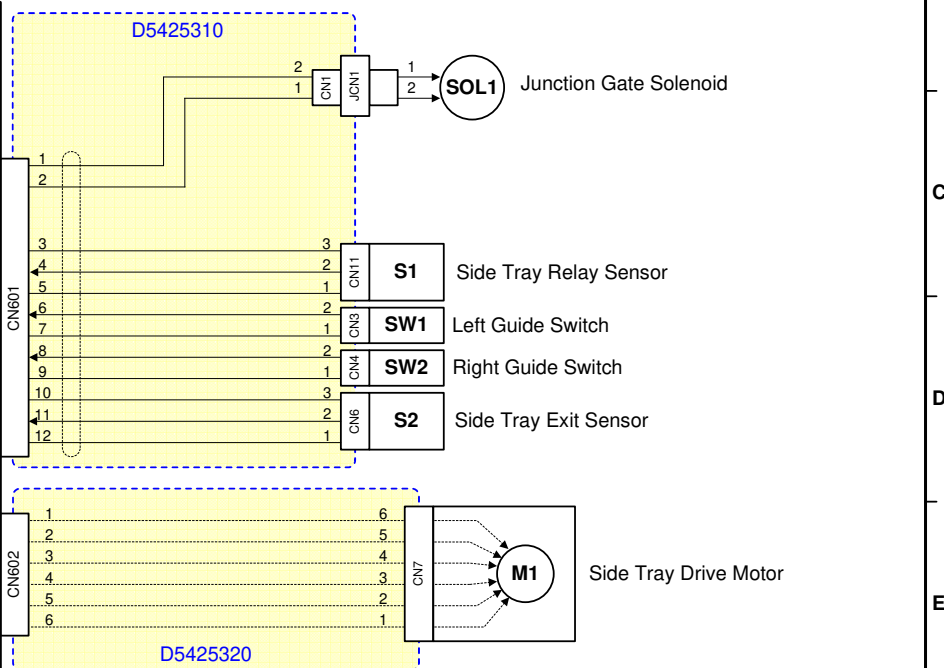
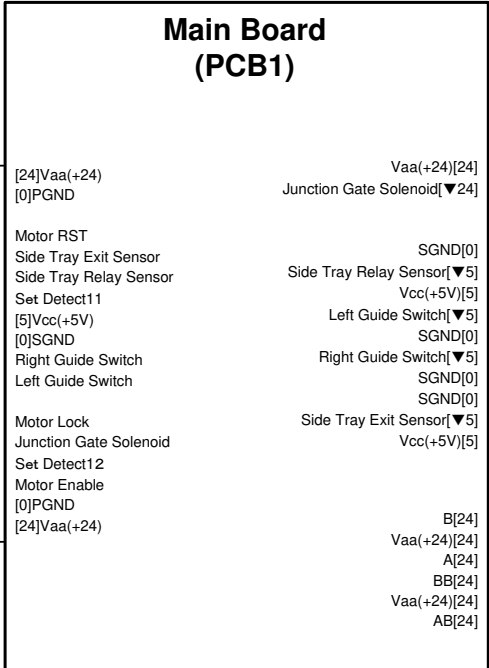
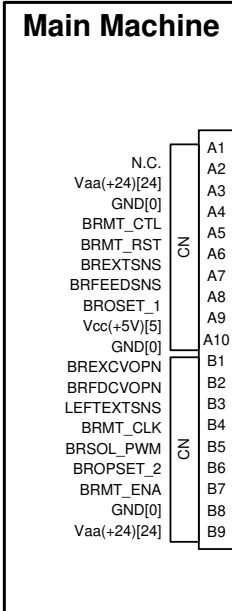
Bridge Unit (D634) ELECTRICAL COMPONENT LAYOUT



D634D102.Wmf

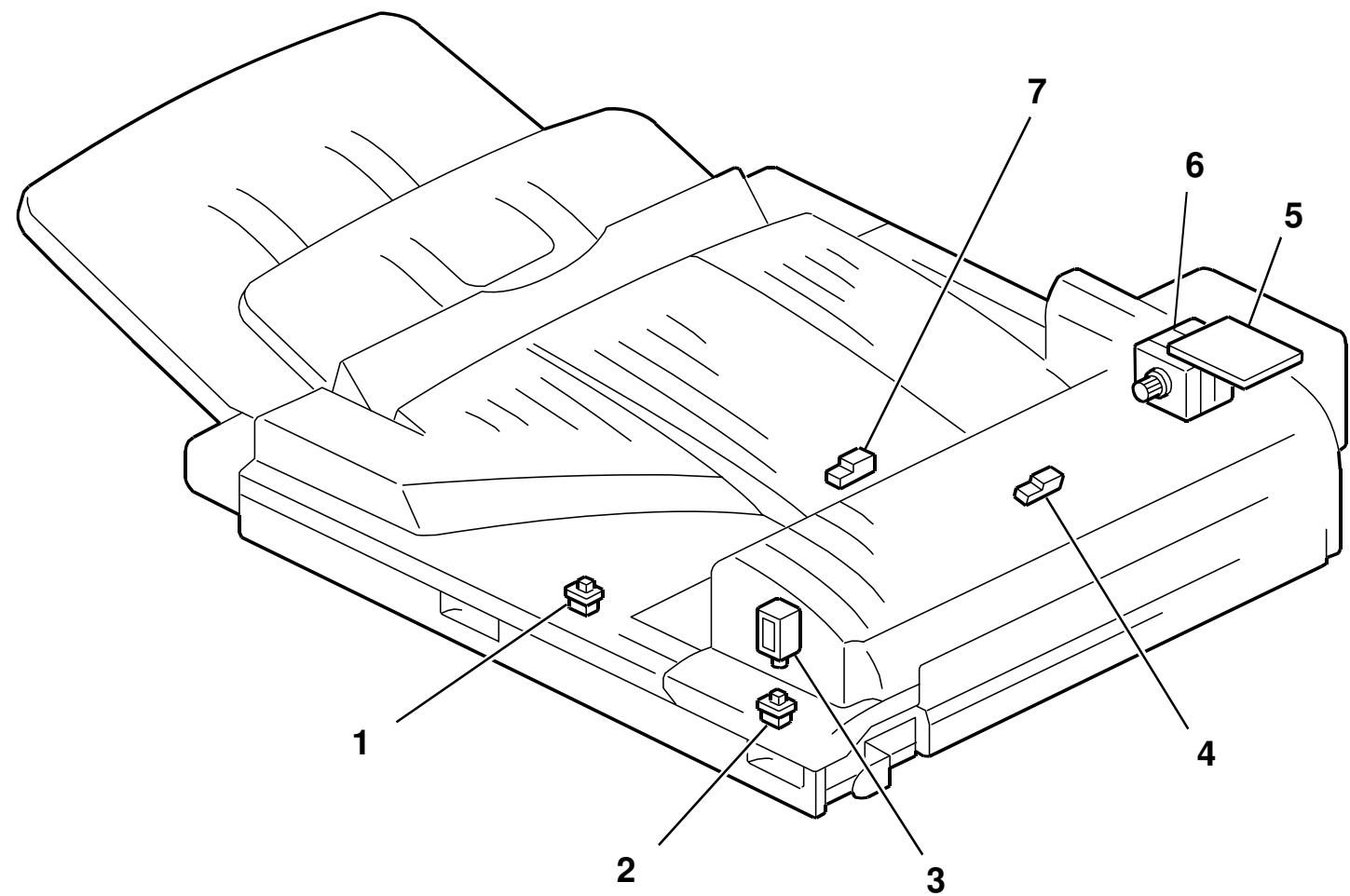
Symbol	Index No.	Description	P to P
Motor			
M1	6	Side Tray Drive Motor	E8
PCB			
PCB1	5	Main Board	C5
Sensors			
S1	7	Side Tray Relay Sensor	C8
S2	4	Side Tray Exit Sensor	D8
Solenoid			
SOL1	3	Junction Gate Solenoid	B8
Switchs			
SW1	1	Left Guide Switch	C8
SW2	2	Right Guide Switch	D8

Bridge Unit (D634) POINT TO POINT DIAGRAM



SYMBOL TABLE	
	AC LINE
	DC LINE
	Pulse
	Signal Direction
	▲ High Active
	▼ Low Active
	[] Voltage

Side Tray (D635) ELECTRICAL COMPONENT LAYOUT



D635D102.Wmf

Symbol	Index No.	Description	P to P
Motor			
M1	6	Side Tray Drive Motor	E8
PCB			
PCB1	5	Main Board	C5
Sensors			
S1	7	Side Tray Relay Sensor	C8
S2	4	Side Tray Exit Sensor	D8
Solenoid			
SOL1	3	Junction Gate Solenoid	B8
Switchs			
SW1	1	Left Guide Switch	C8
SW2	2	Right Guide Switch	D8

Side Tray (D635) POINT TO POINT DIAGRAM

Main Machine

N.C.	A1	NC	NC	A10	10	
Vaa(+24)[24]	A2	9	9	A9	9	1
GND[0]	A3	8	8	A8	8	2
BRMT_CTL	A4	7	7	A7	7	
BRMT_RST	A5	6	6	A6	6	3
BREXTSNS	A6	5	5	A5	5	4
BRFEEDSNS	A7	4	4	A4	4	5
BROSET_1	A8	3	3	A3	3	6
Vcc(+5V)[5]	A9	2	2	A2	2	7
GND[0]	A10	1	1	A1	1	8
BREXCVOPN	B1	10	10	B9	9	9
BRFDCVOPN	B2	11	11	B8	8	10
LEFTTEXTSNS	B3	12	12	B7	7	
BRMT_CLK	B4	13	13	B6	6	11
BR SOL_PWM	B5	14	14	B5	5	12
BROPSET_2	B6	15	15	B4	4	13
BRMT_ENA	B7	16	16	B3	3	14
GND[0]	B8	17	17	B2	2	15
Vaa(+24)[24]	B9	18	18	B1	1	16

Side Tray Control Board (PCB1)

[24]Vaa(+24)
 [0]PGND
 Motor RST
 Side Tray Exit Sensor
 Side Tray Relay Sensor
 Set Detect11
 [5]Vcc(+5V)
 [0]SGND
 Right Guide Switch
 Left Guide Switch
 Motor Lock
 Junction Gate Solenoid
 Set Detect12
 Motor Enable
 [0]PGND
 [24]Vaa(+24)

Vaa(+24)[24]
 Junction Gate Solenoid[▼24]
 SGND[0]
 Side Tray Relay Sensor[▼5]
 Vcc(+5V)[5]
 Left Guide Switch[▼5]
 SGND[0]
 Right Guide Switch[▼5]
 SGND[0]
 SGND[0]
 Side Tray Exit Sensor[▼5]
 Vcc(+5V)[5]

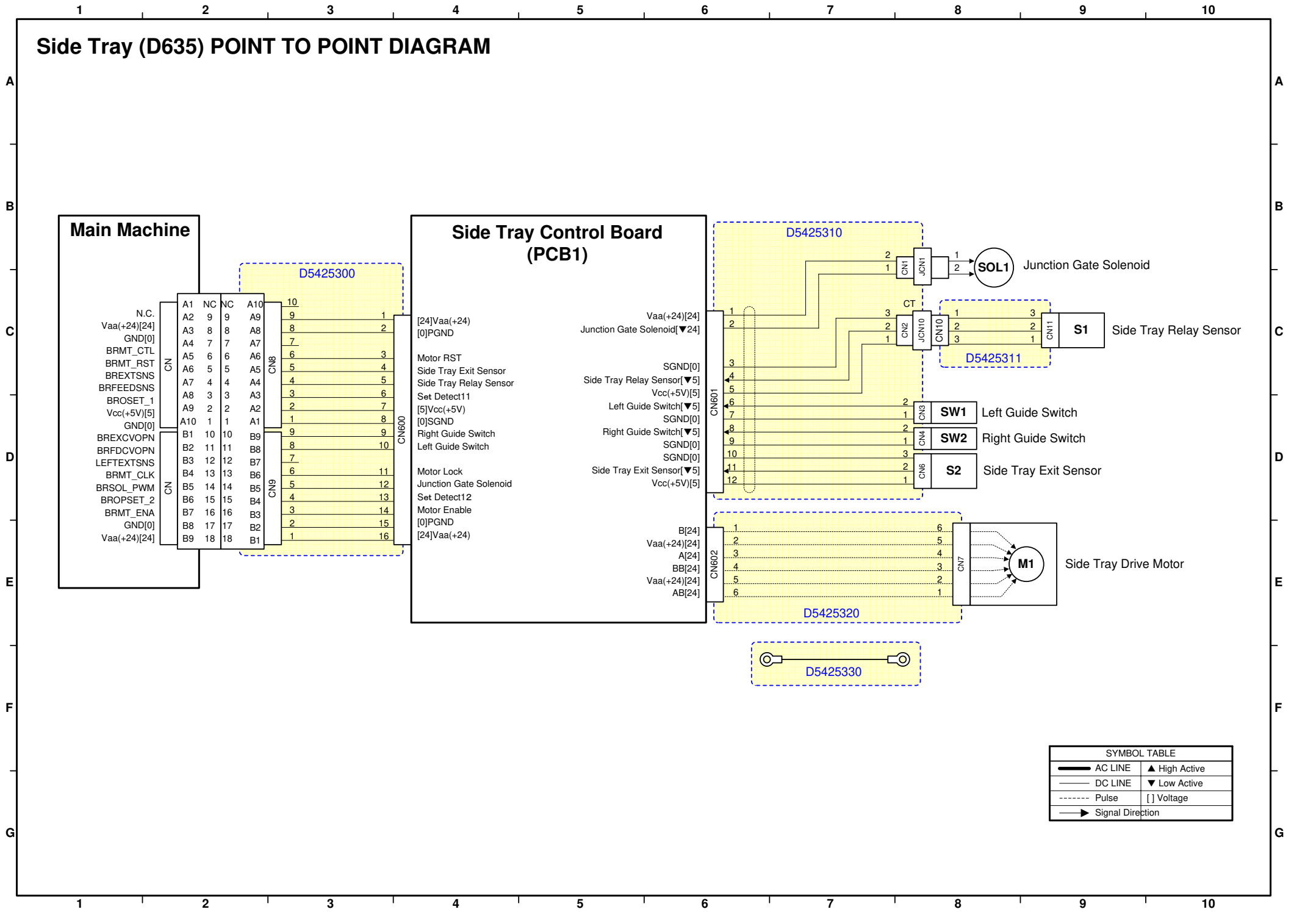
B[24]
 Vaa(+24)[24]
 A[24]
 BB[24]
 Vaa(+24)[24]
 AB[24]

Components and Connections:

- D5425300** (Main Machine Connector)
- D5425310** (Junction Gate Solenoid Connector)
- D5425311** (Side Tray Relay Sensor Connector)
- D5425320** (Side Tray Drive Motor Connector)
- D5425330** (Key Switch)
- SOL1**: Junction Gate Solenoid
- S1**: Side Tray Relay Sensor
- SW1**: Left Guide Switch
- SW2**: Right Guide Switch
- S2**: Side Tray Exit Sensor
- M1**: Side Tray Drive Motor

SYMBOL TABLE

— AC LINE	▲ High Active
— DC LINE	▼ Low Active
--- Pulse	[] Voltage
➔ Signal Direction	



Side Tray (D635) POINT TO POINT DIAGRAM

Main Machine

Main Machine	Pin	Signal	Side Tray Control Board (PCB1)	Pin	Signal
N.C.	A1	NC		10	1
Vaa(+24)[24]	A2	9		9	2
GND[0]	A3	8		8	3
BRMT_CTL	A4	7		7	4
BRMT_RST	A5	6		6	5
BREXTSNS	A6	5		5	6
BRFEEDSNS	A7	4		4	7
BROSET_1	A8	3		3	8
Vcc(+5V)[5]	A9	2		2	9
GND[0]	A10	1		1	10
BREXCVOPN	B1	10		9	11
BRFDCVOPN	B2	11		8	12
LEFTTEXTSNS	B3	12		7	13
BRMT_CLK	B4	13		6	14
BRMOL_PWM	B5	14		5	15
BROPSET_2	B6	15		4	16
BRMT_ENA	B7	16		3	
GND[0]	B8	17		2	
Vaa(+24)[24]	B9	18		1	

Side Tray Control Board (PCB1)

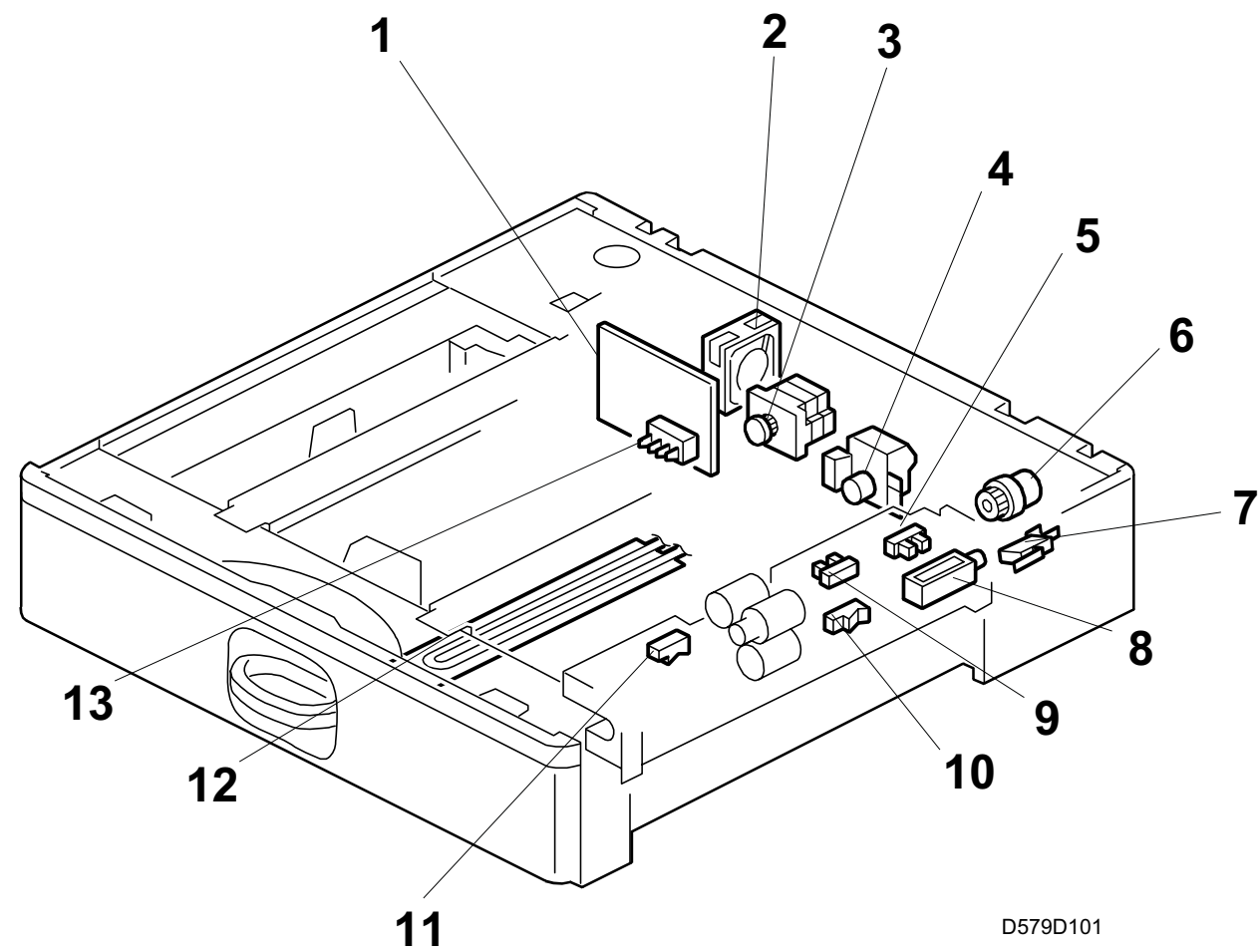
Components and Connections:

- Junction Gate Solenoid (SOL1):** Connected to Vaa(+24)[24] (Pin 1) and Junction Gate Solenoid[24] (Pin 2).
- Side Tray Relay Sensor (S1):** Connected to Vcc(+5V)[5] (Pin 1) and Side Tray Relay Sensor[5] (Pin 2).
- Left Guide Switch (SW1):** Connected to SGND[0] (Pin 1) and Left Guide Switch[5] (Pin 2).
- Right Guide Switch (SW2):** Connected to SGND[0] (Pin 1) and Right Guide Switch[5] (Pin 2).
- Side Tray Exit Sensor (S2):** Connected to SGND[0] (Pin 1) and Side Tray Exit Sensor[5] (Pin 2).
- Side Tray Drive Motor (M1):** Connected to B[24] (Pin 1), Vaa(+24)[24] (Pin 2), A[24] (Pin 3), BB[24] (Pin 4), Vaa(+24)[24] (Pin 5), and AB[24] (Pin 6).

Legend:

- AC LINE
- DC LINE
- Pulse
- Signal Direction
- High Active
- Low Active
- [] Voltage

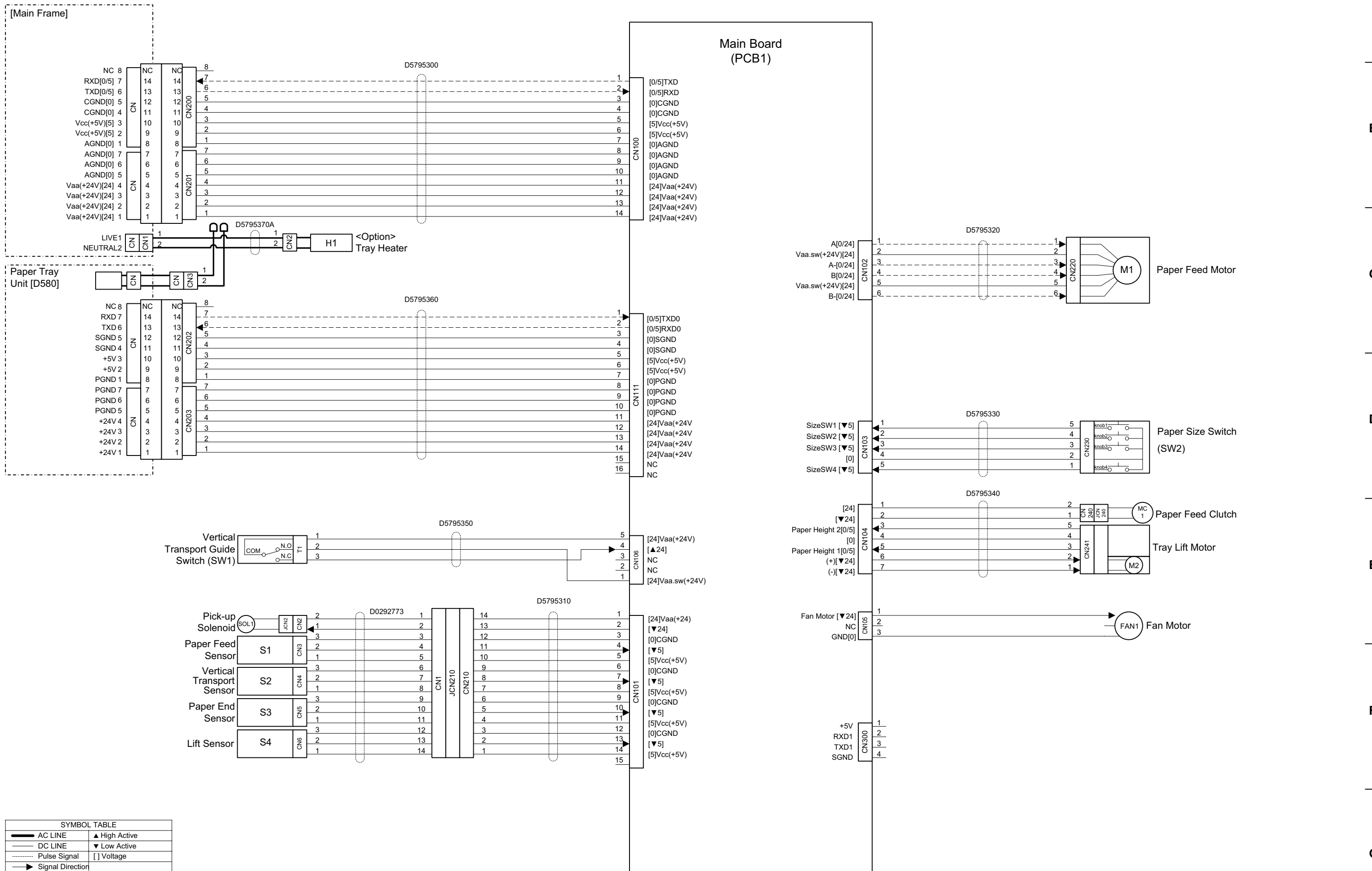
D579 ELECTRICAL COMPONENT LAYOUT



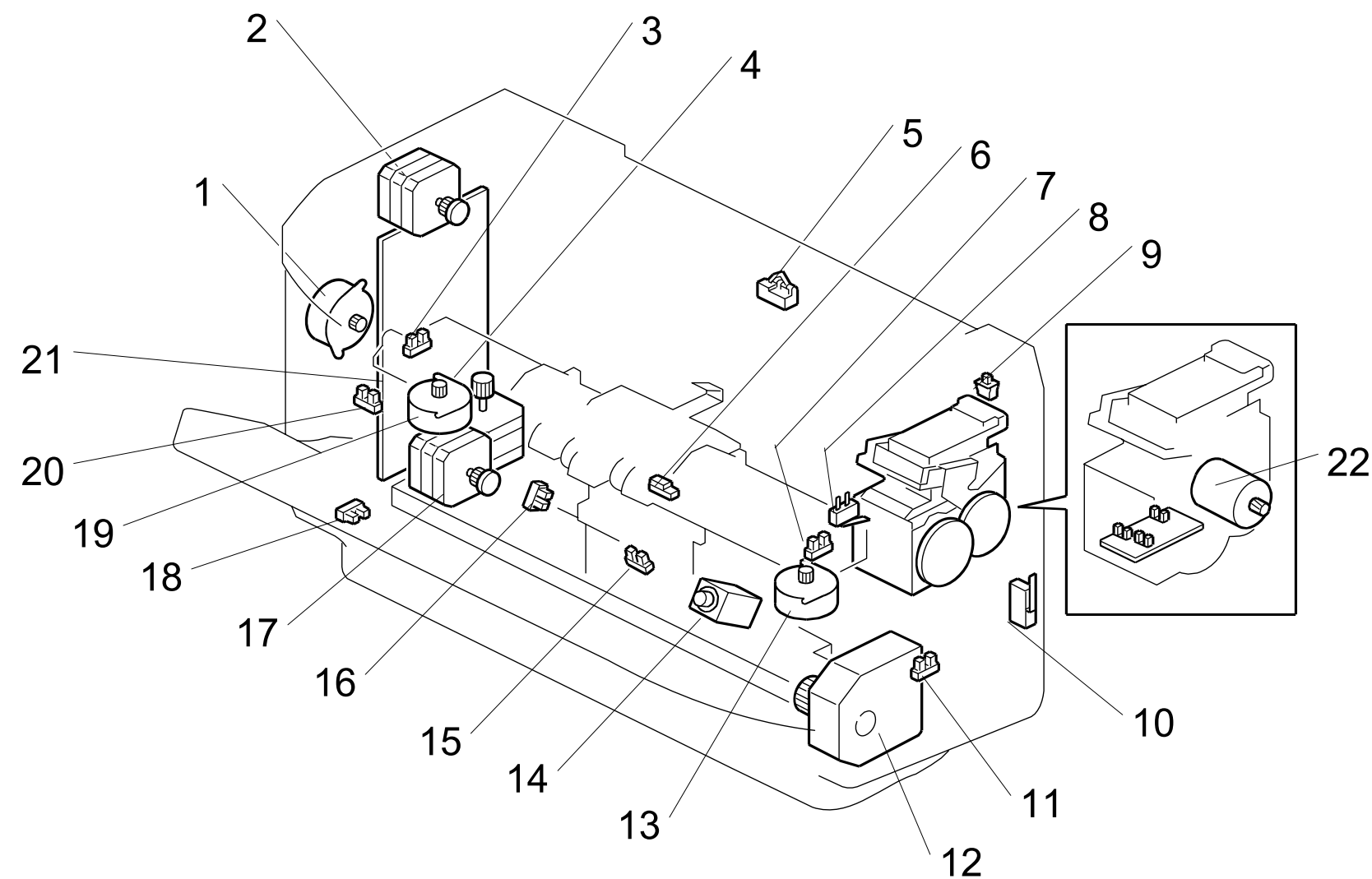
D579D101

Symbol	Name	Index No.	P to P
Motors			
M1	Paper Feed	3	C9
M2	Tray Lift	4	E9
Sensors			
S1	Paper Feed	11	F3
S2	Vertical Transport	10	F3
S3	Paper End	9	F3
S4	Lift	5	F3
Solenoids			
SOL1	Pick-up	8	E3
Switches			
SW1	Vertical Transport	7	E3
SW2	Paper Size	13	D9
Magnetic Clutches			
MC1	Paper Feed	6	E9
PCBs			
PCB1	Main Board	1	B6
Others			
H1	Optional Tray Heater	12	C3
Fan			
FAN1	Fan Motor	2	E9

D579 POINT TO POINT DIAGRAM

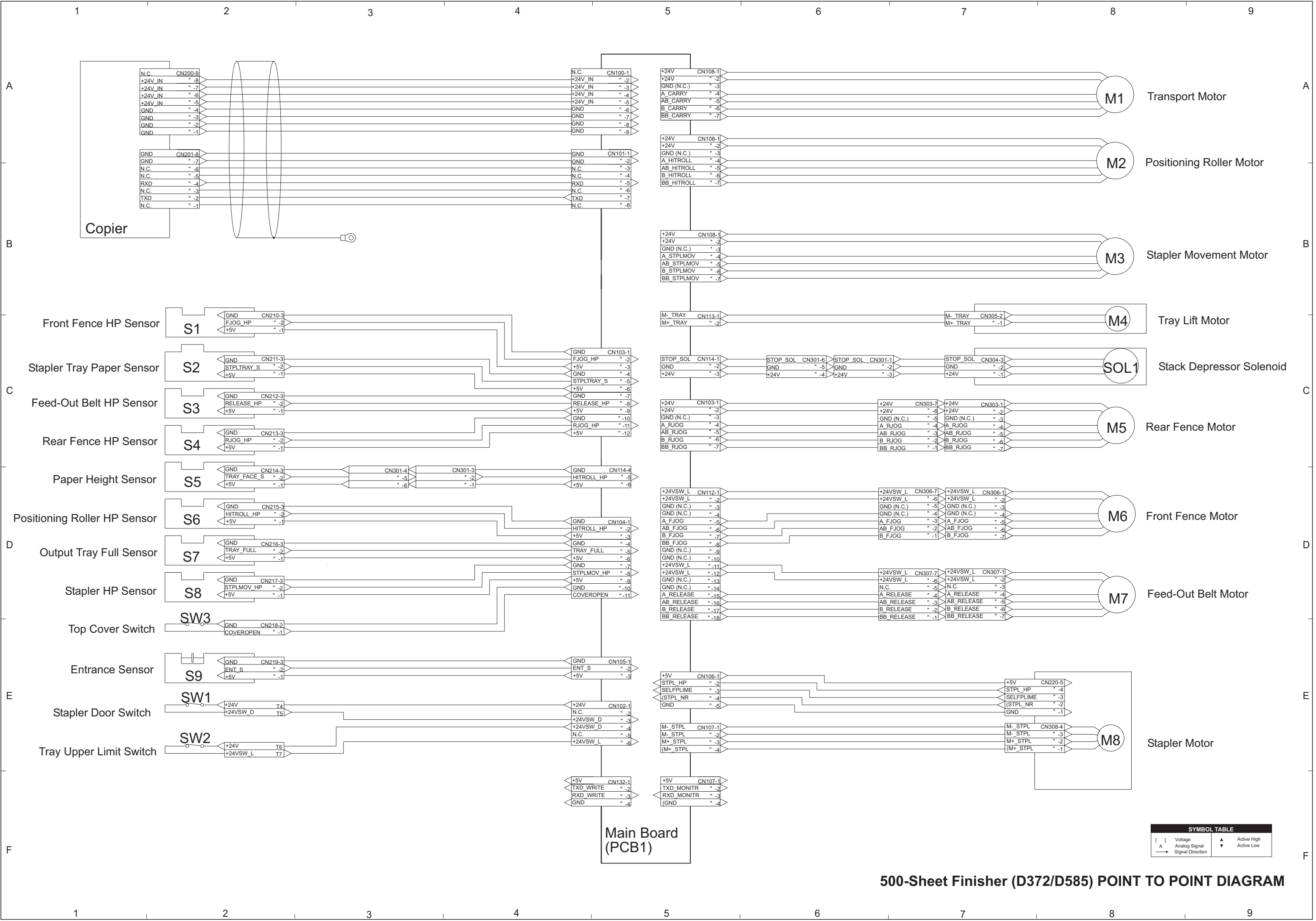


D372/D585 ELECTRICAL COMPONENT LAYOUT

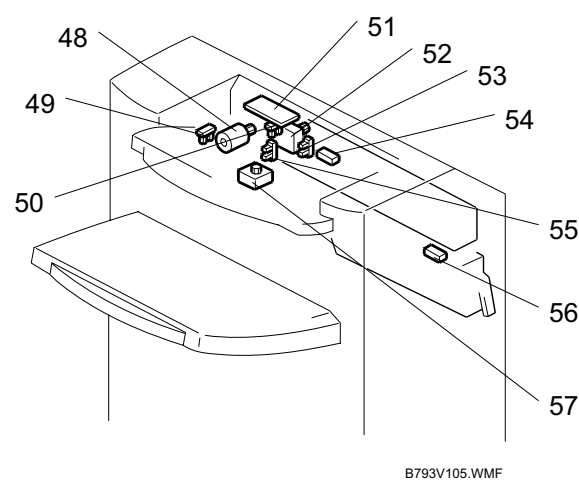
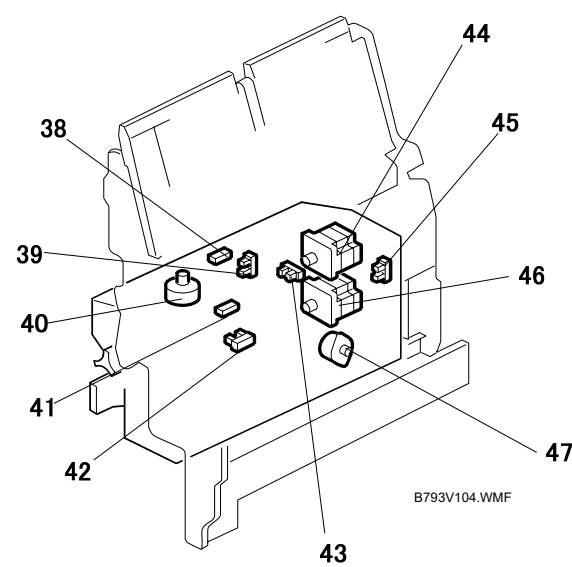
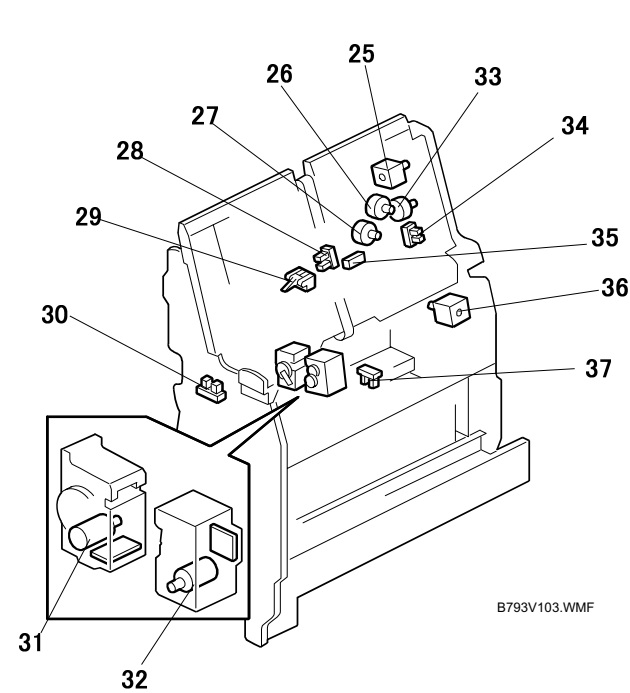
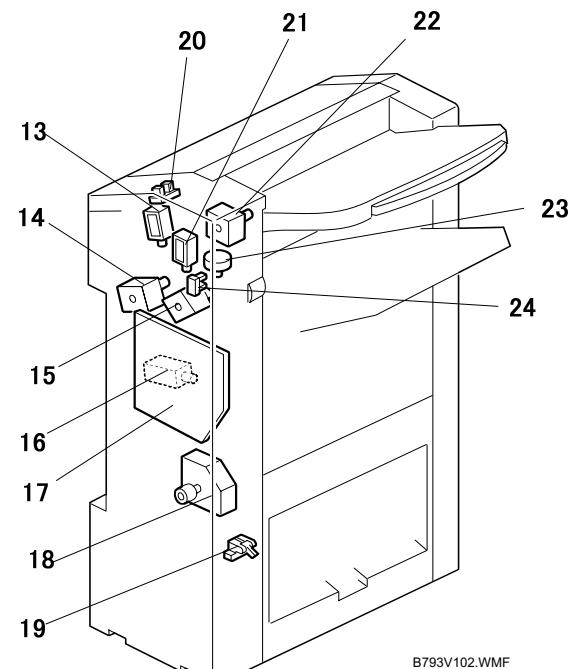
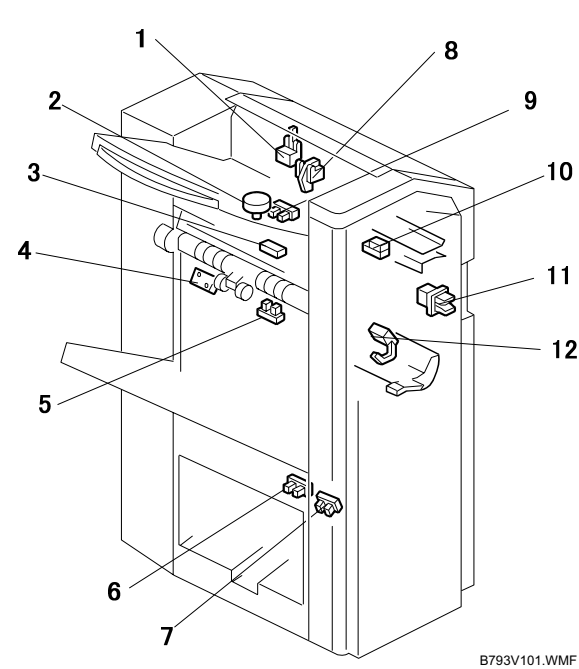


Symbol	Name	Index No.	P to P
Motors			
M1	Transport Motor	2	A8
M2	Positioning Roller Motor	1	A8
M3	Stapler Movement Motor	4	B8
M4	Tray Lift Motor	12	C8
M5	Rear Fence Motor	19	C8
M6	Front Fence Motor	13	D8
M7	Feed-Out Belt Motor	17	D8
M8	Stapler Motor	22	E8
Sensors			
S1	Front Fence HP Sensor	7	C2
S2	Stapler Tray Paper	6	C2
S3	Feed-Out Belt HP	15	C2
S4	Rear Fence HP Sensor	3	C2
S5	Paper Height Sensor	16	D2
S6	Positioning Roller HP Sensor	20	D2
S7	Output Tray Full Sensor	18	D2
S8	Stapler HP Sensor	11	D2
S9	Entrance Sensor	5	E2

Symbol	Name	Index No.	P to P
Switches			
SW1	Stapler Door Switch	10	E2
SW2	Tray Upper Limit Switch	8	E2
SW3	Top Cover Switch	9	E2
Solenoid			
SOL1	Stack Depressor	14	C8
PCB			
PCB1	Main Board	21	F5



B793/D589 ELECTRICAL COMPONENT LAYOUT



Symbol	Name	Index No.	P-to-P
Motors			
M1	Entrance	15	B6
M2	Lower Transport	14	B6
M3	Shift	23	B6
M4	Exit Guide Plate	2	C6
M5	Upper Transport	22	C6
M6	Fold Roller	44	D6
M7	Fold Plate	46	D7
M8	Bottom Fence Lift	47	A9
M9	Shift Tray	18	A9
M10	Stack Feed Out	25	A9
M11	Jogger	26	B9
M12	Upper Clamp Roller	33	B9
M13	Upper Retraction	27	B9
M14	Lower Retraction	40	C9
M15	Staple Unit	36	C9
M16	Paper Position Sensor Slide	52	C9
M17	Punch	48	D9
M18	Punch Movement	57	E9
M19	Staple Folder	32	E6
M20	Staple Driver	31	F6

Sensors			
S1	Stapler Safety	37	B1
S2	Staple Unit HP	30	B1
S3	Stack S HP	28	B1
S4	Stack Feed Out HP	29	B1
S5	Jogger HP	34	B1
S6	Staple Tray Paper	35	C1
S7	Fold Unit Exit	38	C1
S8	Lower Clamp Roller HP	39	C1
S9	Bottom Fence HP	42	C1
S10	Fold Plate HP	45	C1
S11	Fold Cam HP	43	D1
S12	Fold Unit Entrance	41	D1
S13	Lower Limit	19	D1
S14	Front Booklet Tray Full	7	D1
S15	Rear Booklet Tray Full	6	D1
S16	Stapler Tray Exit	12	E1
S17	Shift Tray Position	5	E1
S18	Entrance	10	E1
S19	Shift Motor HP	24	A4
S20	Shift Tray Exit	3	A4
S21	Exit Guide Plate HP	9	A4
S22	Upper Cover	20	A4
S23	Proof Tray Exit	1	A4
S24	Proof Tray Full	8	B4
S25	Paper Position Slide HP	53	D9
S26	Punch HP	50	D9
S27	Punch Encorder	49	D9
S28	Punch Movement HP	50	E9
S29	Paper Position	54	E9
S30	Punch Hopper Full	56	F9
Solenoids			
SOL1	Proof Tray Gate	13	C6
SOL2	Staple Tray Gate	21	C6
SOL3	Positioning Roller	16	D6
Switches			
SW1	Upper Limit	4	E1
SW2	Front Door Safety	11	E1
PCBs			
PCB1	Main Board	17	A3-F7
PCB2	Punch Board	51	C7-E8

B793/D589 Point to Point Diagram

A

Main Frame

B

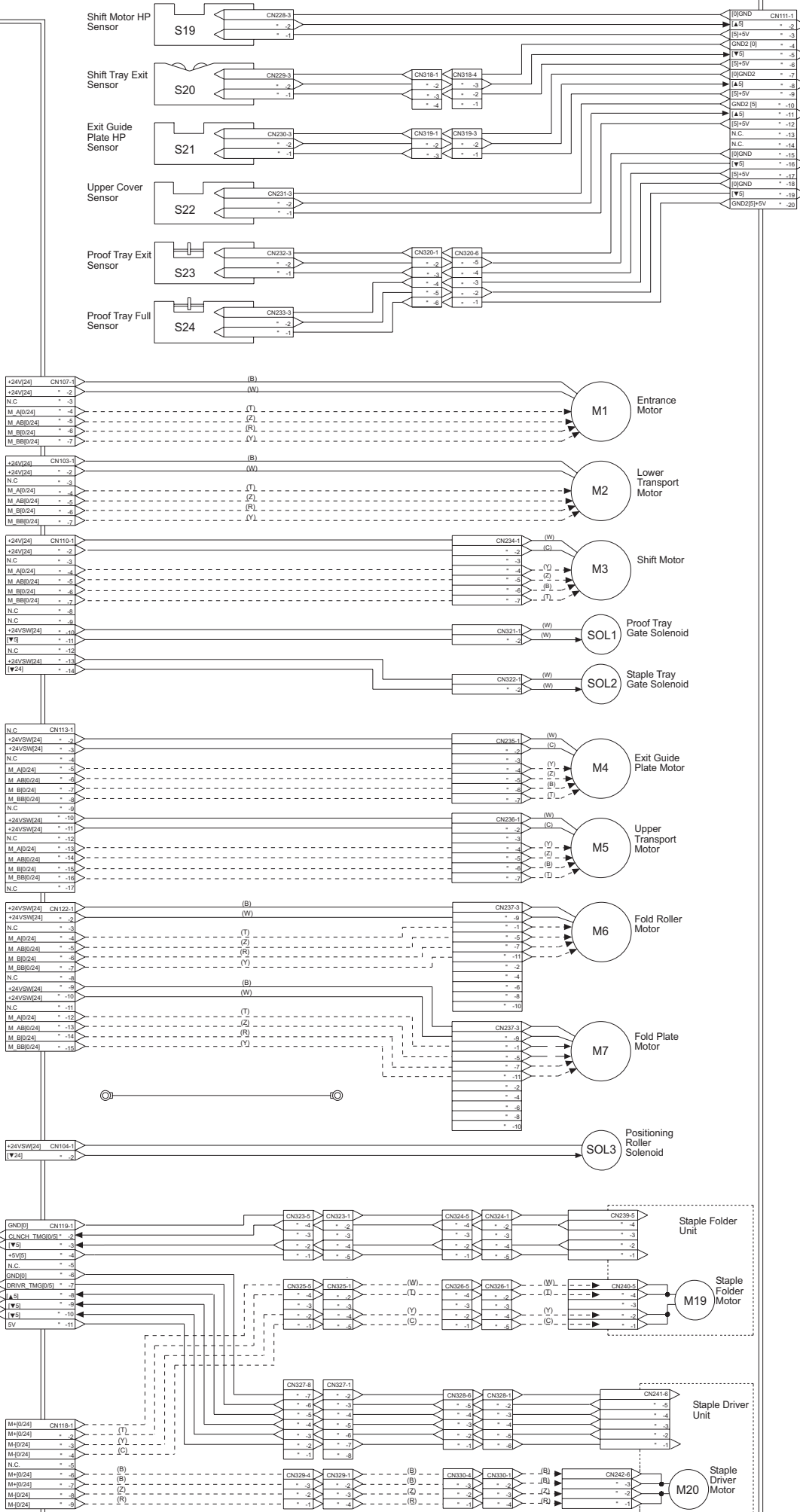
C

D

E

F

SYMBOL TABLE	
	DC Line
	Pulse Signal
	Signal Direction
	Active High
	Active Low
	Voltage



Main Board PCB1

