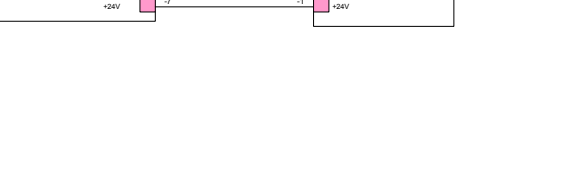
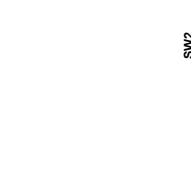
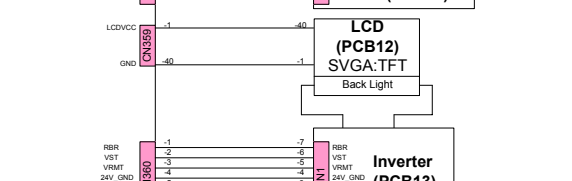
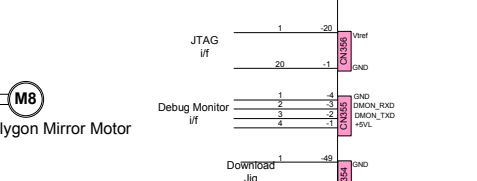
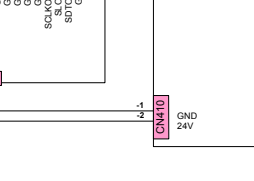
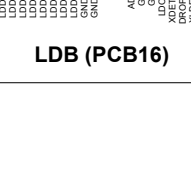
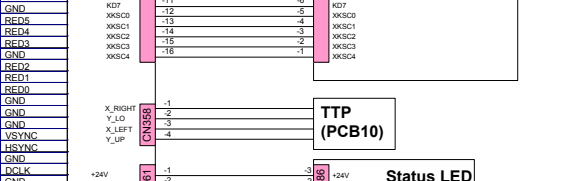
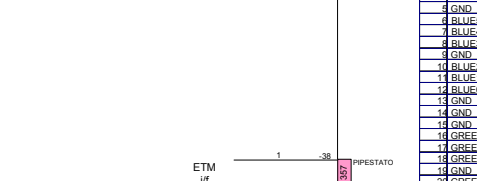
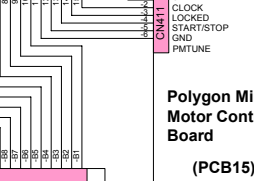
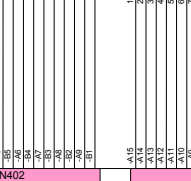
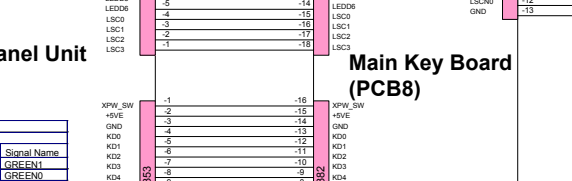
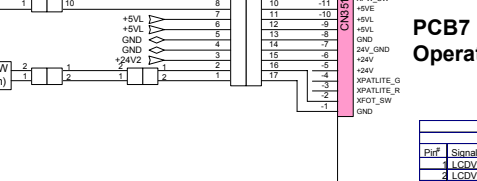
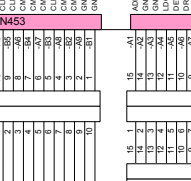
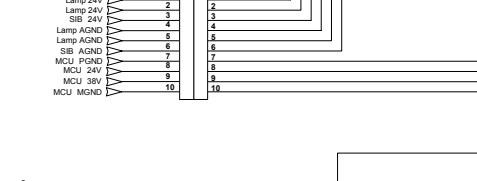
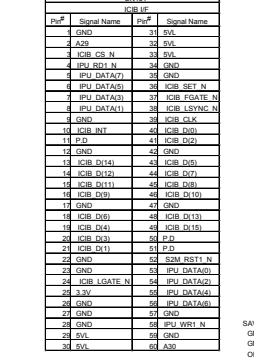
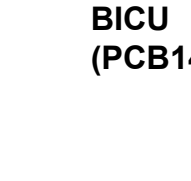
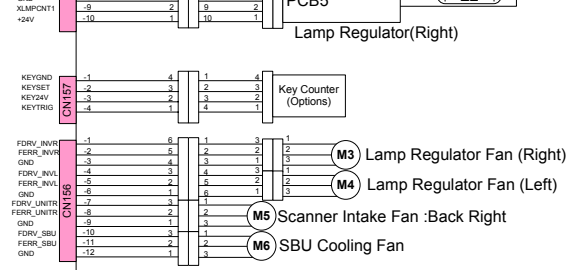
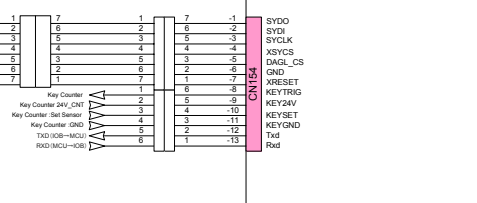
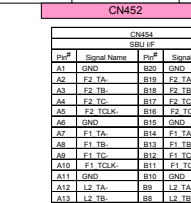
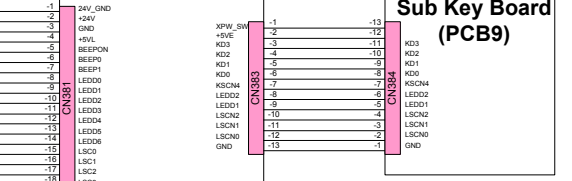
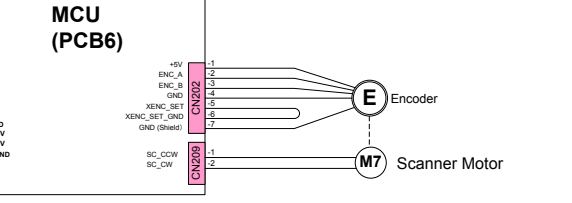
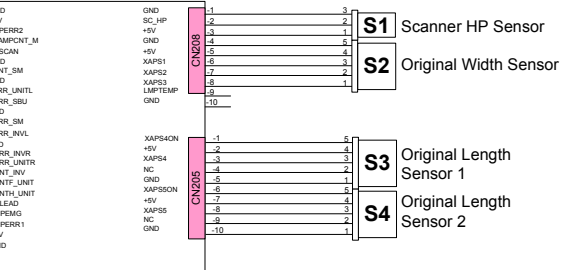
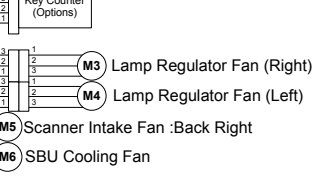
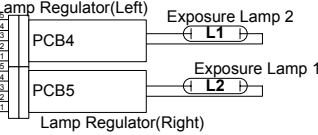
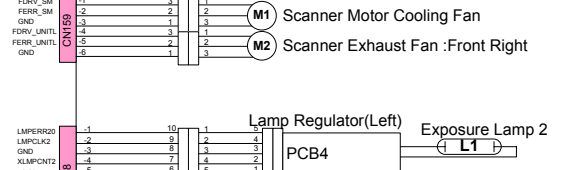
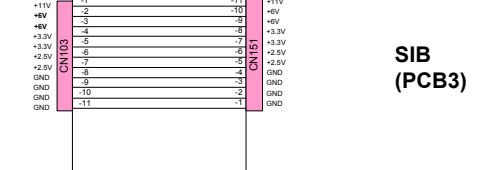
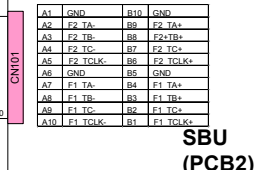
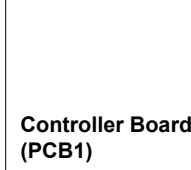
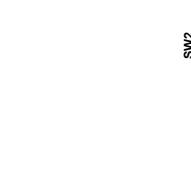
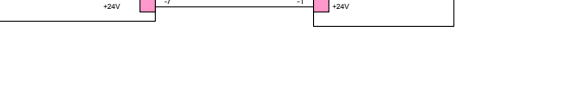
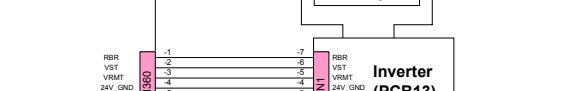
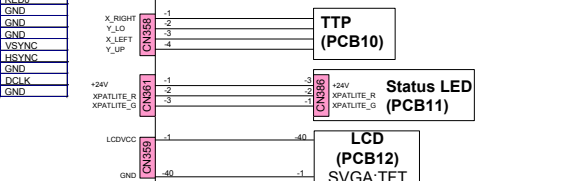
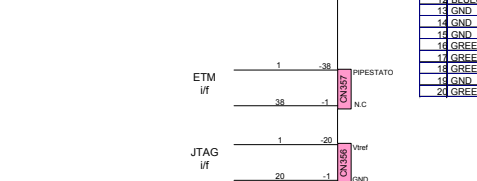
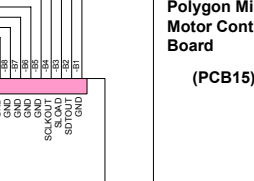
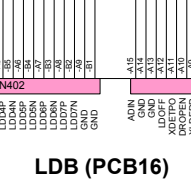


# D059/D060/D061 POINT TO POINT DIAGRAM (1/3)

Pin#	Signal Name	Pin#	Signal Name	Pin#	Signal Name
1	AVDDNC1	23	PCIE_TXON	7	SVL
2	AVDDNC2	24	PCIE_TXON	8	SVL
3	AVDDNC3	25	PCIE_TXON	9	SVL
4	AVDDNC4	26	PCIE_TXON	10	SVL
5	AVDDNC5	27	PCIE_TXON	11	SVL
6	AVDDNC6	28	PCIE_TXON	12	SVL
7	AVDDNC7	29	PCIE_TXON	13	SVL
8	AVDDNC8	30	PCIE_TXON	14	SVL
9	AVDDNC9	31	PCIE_TXON	15	SVL
10	AVDDNC10	32	PCIE_TXON	16	SVL
11	AVDDNC11	33	PCIE_TXON	17	SVL
12	AVDDNC12	34	PCIE_TXON	18	SVL
13	AVDDNC13	35	PCIE_TXON	19	SVL
14	AVDDNC14	36	PCIE_TXON	20	SVL
15	AVDDNC15	37	PCIE_TXON	21	SVL
16	AVDDNC16	38	PCIE_TXON	22	SVL
17	AVDDNC17	39	PCIE_TXON	23	SVL
18	AVDDNC18	40	PCIE_TXON	24	SVL
19	AVDDNC19	41	PCIE_TXON	25	SVL
20	AVDDNC20	42	PCIE_TXON	26	SVL
21	AVDDNC21	43	PCIE_TXON	27	SVL
22	AVDDNC22	44	PCIE_TXON	28	SVL
23	AVDDNC23	45	PCIE_TXON	29	SVL
24	AVDDNC24	46	PCIE_TXON	30	SVL
25	AVDDNC25	47	PCIE_TXON	31	SVL
26	AVDDNC26	48	PCIE_TXON	32	SVL
27	AVDDNC27	49	PCIE_TXON	33	SVL
28	AVDDNC28	50	PCIE_TXON	34	SVL
29	AVDDNC29	51	PCIE_TXON	35	SVL
30	AVDDNC30	52	PCIE_TXON	36	SVL
31	AVDDNC31	53	PCIE_TXON	37	SVL
32	AVDDNC32	54	PCIE_TXON	38	SVL
33	AVDDNC33	55	PCIE_TXON	39	SVL
34	AVDDNC34	56	PCIE_TXON	40	SVL
35	AVDDNC35	57	PCIE_TXON	41	SVL
36	AVDDNC36	58	PCIE_TXON	42	SVL
37	AVDDNC37	59	PCIE_TXON	43	SVL
38	AVDDNC38	60	PCIE_TXON	44	SVL
39	AVDDNC39	61	PCIE_TXON	45	SVL
40	AVDDNC40	62	PCIE_TXON	46	SVL
41	AVDDNC41	63	PCIE_TXON	47	SVL
42	AVDDNC42	64	PCIE_TXON	48	SVL
43	AVDDNC43	65	PCIE_TXON	49	SVL
44	AVDDNC44	66	PCIE_TXON	50	SVL
45	AVDDNC45	67	PCIE_TXON	51	SVL
46	AVDDNC46	68	PCIE_TXON	52	SVL
47	AVDDNC47	69	PCIE_TXON	53	SVL
48	AVDDNC48	70	PCIE_TXON	54	SVL
49	AVDDNC49	71	PCIE_TXON	55	SVL
50	AVDDNC50	72	PCIE_TXON	56	SVL
51	AVDDNC51	73	PCIE_TXON	57	SVL
52	AVDDNC52	74	PCIE_TXON	58	SVL
53	AVDDNC53	75	PCIE_TXON	59	SVL
54	AVDDNC54	76	PCIE_TXON	60	SVL
55	AVDDNC55	77	PCIE_TXON	61	SVL
56	AVDDNC56	78	PCIE_TXON	62	SVL
57	AVDDNC57	79	PCIE_TXON	63	SVL
58	AVDDNC58	80	PCIE_TXON	64	SVL
59	AVDDNC59	81	PCIE_TXON	65	SVL
60	AVDDNC60	82	PCIE_TXON	66	SVL
61	AVDDNC61	83	PCIE_TXON	67	SVL
62	AVDDNC62	84	PCIE_TXON	68	SVL
63	AVDDNC63	85	PCIE_TXON	69	SVL
64	AVDDNC64	86	PCIE_TXON	70	SVL
65	AVDDNC65	87	PCIE_TXON	71	SVL
66	AVDDNC66	88	PCIE_TXON	72	SVL
67	AVDDNC67	89	PCIE_TXON	73	SVL
68	AVDDNC68	90	PCIE_TXON	74	SVL
69	AVDDNC69	91	PCIE_TXON	75	SVL
70	AVDDNC70	92	PCIE_TXON	76	SVL
71	AVDDNC71	93	PCIE_TXON	77	SVL
72	AVDDNC72	94	PCIE_TXON	78	SVL
73	AVDDNC73	95	PCIE_TXON	79	SVL
74	AVDDNC74	96	PCIE_TXON	80	SVL
75	AVDDNC75	97	PCIE_TXON	81	SVL
76	AVDDNC76	98	PCIE_TXON	82	SVL
77	AVDDNC77	99	PCIE_TXON	83	SVL
78	AVDDNC78	100	PCIE_TXON	84	SVL
79	AVDDNC79	101	PCIE_TXON	85	SVL
80	AVDDNC80	102	PCIE_TXON	86	SVL
81	AVDDNC81	103	PCIE_TXON	87	SVL
82	AVDDNC82	104	PCIE_TXON	88	SVL
83	AVDDNC83	105	PCIE_TXON	89	SVL
84	AVDDNC84	106	PCIE_TXON	90	SVL
85	AVDDNC85	107	PCIE_TXON	91	SVL
86	AVDDNC86	108	PCIE_TXON	92	SVL
87	AVDDNC87	109	PCIE_TXON	93	SVL
88	AVDDNC88	110	PCIE_TXON	94	SVL
89	AVDDNC89	111	PCIE_TXON	95	SVL
90	AVDDNC90	112	PCIE_TXON	96	SVL
91	AVDDNC91	113	PCIE_TXON	97	SVL
92	AVDDNC92	114	PCIE_TXON	98	SVL
93	AVDDNC93	115	PCIE_TXON	99	SVL
94	AVDDNC94	116	PCIE_TXON	100	SVL

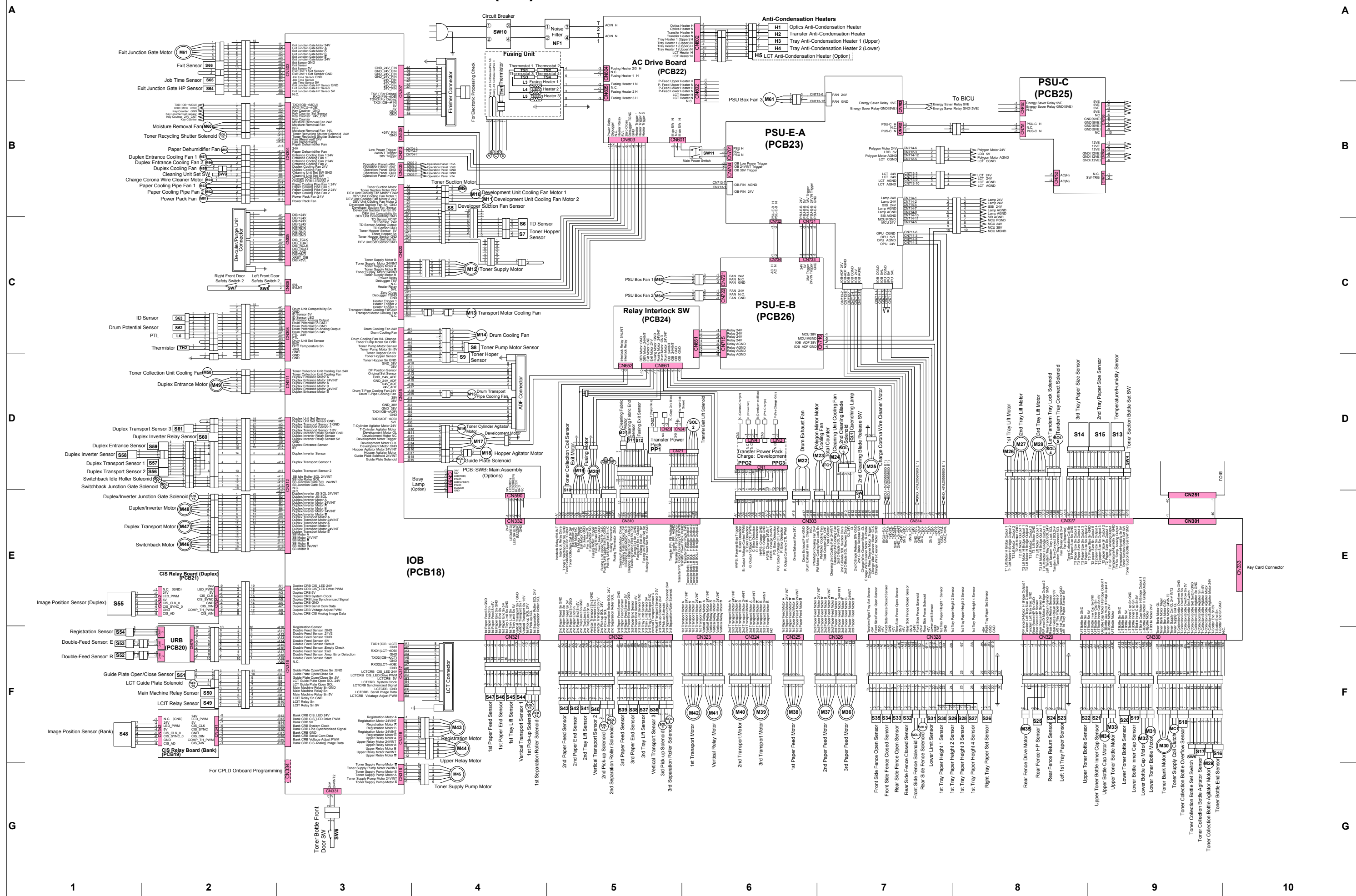


Pin NO.	Signal Name	Pin NO.	Signal Name	Pin NO.	Signal Name
1	GND	21	ICB1 D(1)	41	ICB1 D(2)
2	A20	22	GND	42	GND
3	ICB1 CS_N	23	GND	43	ICB1 D(5)
4	ICB1 D(1)	24	ICB1 LGATE_N	44	ICB1 D(7)
5	ICB1 D(2)	25	3.3V	45	ICB1 D(8)
6	ICB1 D(3)	26	GND	46	ICB1 D(10)
7	ICB1 D(4)	27	GND	47	GND
8	ICB1 D(5)	28	GND	48	ICB1 D(13)
9	GND	29	AV	49	ICB1 D(15)
10	ICB1 INT	30	SV	50	ICB1 D(16)
11	ICB1 INT	31	SV	51	ICB1 D(17)
12	GND	32	SV	52	S2M RST1_N
13	ICB1 D(14)	33	SV	53	ICB1 D(9)
14	ICB1 D(12)	34	GND	54	ICB1 D(2)
15	ICB1 D(11)	35	GND	55	ICB1 D(4)
16	ICB1 D(9)	36	ICB1 SET_N	56	ICB1 D(8)
17	GND	37	ICB1 LGATE_N	57	GND
18	ICB1 D(6)	38	ICB1 LSYNCD_N	58	ICB1 WR1_N
19	ICB1 D(4)	39	ICB1 CLK	59	GND
20	ICB1 D(3)	40	ICB1 D(0)	60	AS0

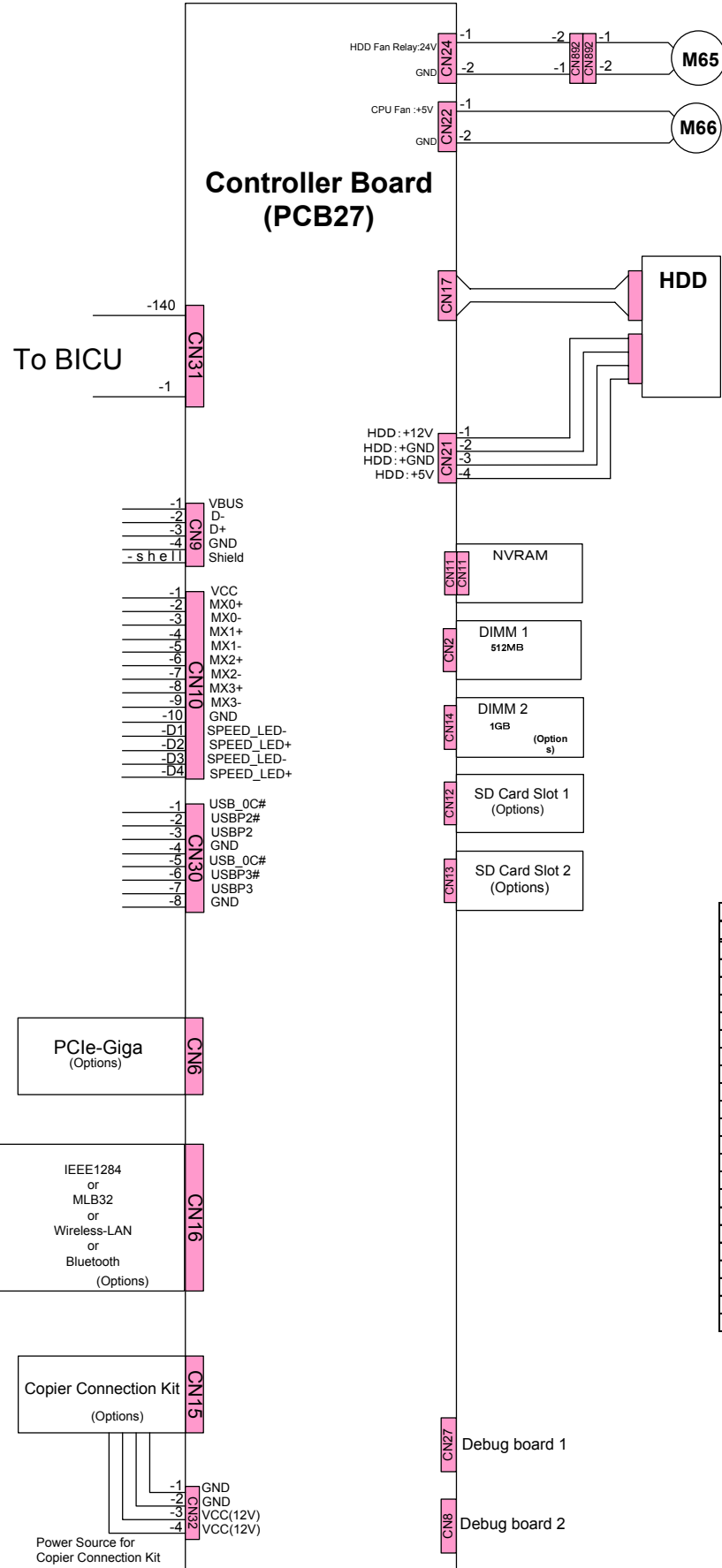


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# D059/D060/D061 POINT TO POINT DIAGRAM (2/3)



# D059/D060/D061 POINT TO POINT DIAGRAM (3/3)



Pin NO.	Signal Name	Pin NO.	Signal Name	Pin NO.	Signal Name	Pin NO.	Signal Name	Pin NO.	Signal Name	Pin NO.	Signal Name
1	24V(IN)	26	PCIE_RX2_P	51	ENG_ENABLE#	76	GND	101	+5VE IN	126	GND
2	NC	27	PCIE_RX2_n	52	GND	77	GND	102	+5VE IN	127	OP2_TCLK/OP0CLK
3	GND	28	GND	53	PONSENS#/SDLED	78	NC	103	+5VE IN	128	OP2_TXD/OP0_TXD
4	GND	29	PCIE_TX2_P	54	ENGRDY1#	79	+5VE IN	104	+5VE IN	129	OP2_REQ
5	RSVD	30	PCIE_TX2_N	55	GND	80	+5VE IN	105	+5VE IN	130	OP2_RCLK
6	WAKE#(NC)	31	GND	56	PW_SW#	81	+5VE IN	106	+5VE IN	131	OP2_RXD/OP0_RXD
7	GND	32	PCIE_RX3_P	57	WKUP_L#	82	+5VE IN	107	NC	132	GND
8	REFCLK1+	33	PCIE_RX3_N	58	WKUP_E	83	+5VE IN	108	GND	133	OP4_CLK/OP0_CLK
9	REFCLK1-	34	GND	59	VDET_EPCI	84	+5VE IN	109	GND	134	GND
10	GND	35	PCIE_TX3_P	60	PONENG#	85	+5VE IN	110	GND	135	OP4_CS#/OP0_TXD
11	REFCLK0+	36	PCIE_TX3_N	61	GND	86	+5VE IN	111	NC	136	OP4_SDA/OP0_RXD
12	REFCLK0-	37	GND	62	PONPCI#	87	+5VE IN	112	+12VE (IN)	137	OP4_IRQ#
13	GND	38	PERST#	63	PSAVE_FCU	88	+5VE IN	113	+12VE (IN)	138	OP4_ONLINE_LED_ON#
14	PCIE_RX0_P	39	GND	64	GND	89	+5VE IN	114	+12VE (IN)	139	OP4_RST#
15	PCIE_RX0_N	40	RSVD	65	USB_0D+	90	+5VE IN	115	+12VE (IN)	140	GND
16	GND	41	RSVD	66	USB_0D-	91	+5VE IN	116	+12VE (IN)		
17	PCIE_TX0_P	42	GND	67	GND	92	+5VE IN	117	+12VE (IN)		
18	PCIE_TX0_N	43	GND	68	USB_1D+(RSVD)	93	+5VE IN	118	+12VE (IN)		
19	GND	44	GND	69	USB_1D-(RSVD)	94	+5VE IN	119	+12VE (IN)		
20	PCIE_RX1_P	45	GND	70	GND	95	+5VE IN	120	+12VE (IN)		
21	PCIE_RX1_N	46	GND	71	+5V IN	96	+5VE IN	121	+12VE (IN)		
22	GND	47	PETXD	72	NC	97	+5VE IN	122	+12VE (IN)		
23	PCIE_TX1_P	48	PETXD	73	GND	98	+5VE IN	123	+12VE (IN)		
24	PCIE_TX1_n	49	GND	74	GND	99	+5VE IN	124	+12VE (IN)		
25	GND	50	TIMER_UP#	75	GND	100	+5VE IN	125	NC		

Pin NO.	Signal Name	Pin NO.	Signal Name	Pin NO.	Signal Name	Pin NO.	Signal Name	Pin NO.	Signal Name	Pin NO.	Signal Name	Pin NO.	Signal Name	Pin NO.	Signal Name
1	VREF	26	DM1	51	DQS2	76	DQ31	101	A1	126	DQ37	151	DQ42	176	DQ55
2	VSS	27	VSS	52	DM2	77	VSS	102	A0	127	VSS	152	DQ46	177	VSS
3	VSS	28	VSS	53	VSS	78	VSS	103	VDD	128	VSS	153	DQ43	178	VSS
4	DQ4	29	DQS1	54	VSS	79	CKE0	104	VDD	129	DQS4	154	DQ47	179	DQ56
5	DQ0	30	CK0	55	DQ18	80	NC/CKE1	105	A10/AP	130	DM4	155	VSS	180	DQ60
6	DQ5	31	DQS1	56	DQ22	81	VDD	106	BA1	131	DQS4	156	VSS	181	DQ57
7	DQ1	32	CK0	57	DQ19	82	VDD	107	BA0	132	VSS	157	DQ48	182	DQ61
8	VSS	33	VSS	58	DQ23	83	NC/S2#	108	RAS	133	VSS	158	DQ52	183	VSS
9	VSS	34	VSS	59	VSS	84	NC/A15	109	WE	134	DQ38	159	DQ49	184	VSS
10	DM0	35	DQ10	60	VSS	85	NC/BA2	110	S0	135	DQ34	160	DQ53	185	DM7
11	DQS	36	DQ14	61	DQ24	86	NC/A14	111	VDD	136	DQ39	161	VSS	186	DQ57
12	VSS	37	DQ11	62	DQ28	87	VDD	112	VDD	137	DQ35	162	VSS	187	VSS
13	DQS0	38	DQ15	63	DQ25	88	VDD	113	CAS	138	VSS	163	NC.TEST	188	DQ57
14	DQ6	39	VSS	64	DQ29	89	A12	114	ODT0	139	VSS	164	CK1	189	DQ58
15	VSS	40	VSS	65	VSS	90	A11	115	NC/S1	140	DQ44	165	VSS	190	VSS
16	DQ7	41	VSS	66	VSS	91	A9	116	NC/A13	141	DQ40	166	CK1	191	DQ59
17	DQ2	42	VSS	67	DM3	92	A7	117	VDD	142	DQ45	167	DQ56	192	DQ62
18	VSS	43	DQ16	68	DQS3	93	A8	118	VDD	143	DQ41	168	VSS	193	VSS
19	DQ3	44	DQ20	69	NC/RESET#	94	A6	119	NC/ODT1	144	VSS	169	DQ56	194	DQ63
20	DQ12	45	DQ17	70	DQS3	95	VDD	120	NC/S3#	145	VSS	170	DM6	195	SDA
21	VSS	46	DQ21	71	VSS	96	VDD	121	VSS	146	DQS5	171	VSS	196	VSS
22	DQ13	47	VSS	72	VSS	97	A5	122	VSS	147	DM5	172	VSS	197	SCL
23	DQ8	48	VSS	73	DQ26	98	A4	123	DQ32	148	DQS	173	DQ50	198	SA0
24	VSS	49	DQS2	74	DQ30	99	A3	124	DQ36	149	VSS	174	DQ54	199	VDDSPD
25	DQ9	50	Event	75	DQ27	100	A2	125	DQ33	150	VSS	175	DQ51	200	SA1

Pin NO.	Signal Name	Pin NO.	Signal Name	Pin NO.	Signal Name	Pin NO.	Signal Name
1	GND	23	GND	45	DEVSEL	67	AD5
2	INT	24	AD25	46	STOP	68	AD4
3	GND	25	AD24	47	GND	69	AD3
4	Reserved	26	C/BE3	48	PERR	70	AD2
5	GND	27	GND	49	SERR	71	+3.3V
6	CLKRUN	28	IDSEL	50	PAR	72	AD1
7	GND	29	AD23	51	GND	73	+3.3V
8	RST	30	AD22	52	C/BE1	74	AD0
9	GND	31	GND	53	AD15	75	+3.3V
10	CLK	32	AD21	54	AD14	76	Reserved
11	GND	33	AD20	55	GND	77	+3.3V
12	GNT	34	AD19	56	AD13	78	Reserved
13	GND	35	GND	57	AD12	79	+3.3V
14	REQ	36	AD18	58	AD11	80	Reserved
15	GND	37	AD17	59	GND	81	+3.3V
16	PME	38	AD16	60	AD10	82	Reserved
17	AD31	39	GND	61	AD9	83	+5V
18	AD30	40	C/BE2	62	AD8	84	Reserved
19	AD29	41	FRAME	63	GND	85	+5V
20	AD28	42	JRDY	64	C/BE0	86	Reserved
21	AD27	43	GND	65	AD7	87	+3.3Vaux
22	AD26	44	TRDY	66	AD6	88	+24V(INC)

Pin NO.	Signal Name	Pin NO.	Signal Name
1	GND	16	SPI2_CLK
2	GND	17	SPI2_CS3#
3	VCC_SPI	18	PD2
4	VCC_I2C	19	RESERVE
5	SPI1_CS0#	20	RESET#
6	SPI1_CS1#	21	SPI2_CS2#
7	SPI1_CS2#	22	INT_RTC#
8	SPI1_CS3#	23	I2C_CLK
9	SPI1_DIN	24	I2C_DATA
10	SPI1_CLK	25	PD0
11	SPI1_DOUT	26	PD1
12	SPI2_DOUT	27	VCC_I2C
13	SPI2_CS1#	28	VCC_SPI
14	SPI2_CS0#	29	GND
15	SPI2_DIN	30	GND

Pin NO.	Signal Name
1	USB_OC#
2	USBP2#
3	USBP2
4	GND
5	USB_OC#
6	USBP3#
7	USBP3
8	GND

Pin NO.	Signal Name
1	GND
2	A+
3	A-
4	GND
5	B+
6	B-
7	GND

# D059/D060/D061 ELECTRICAL COMPONENT LAYOUT (1/3)

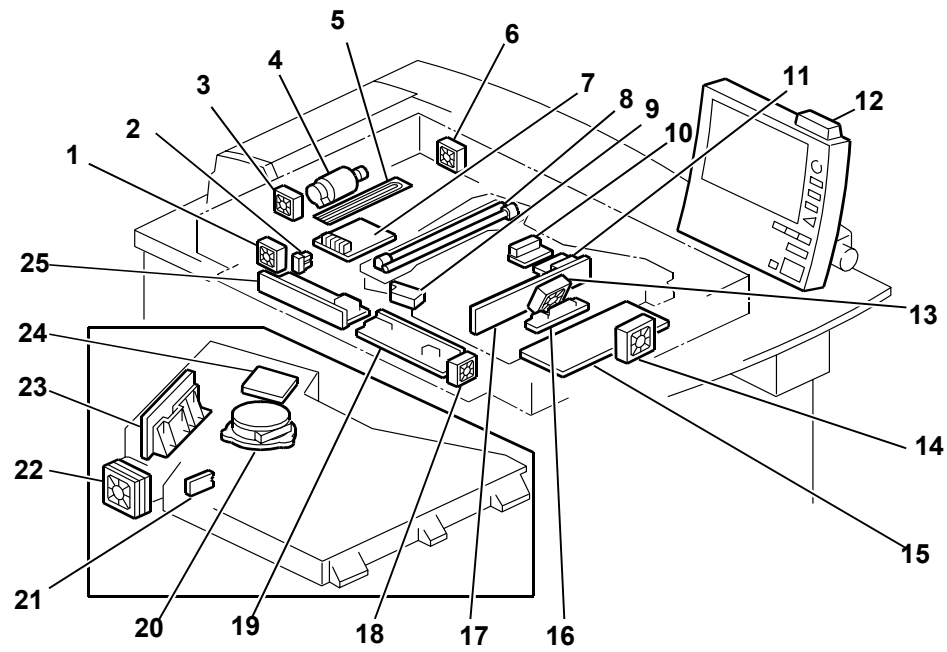


Fig-1

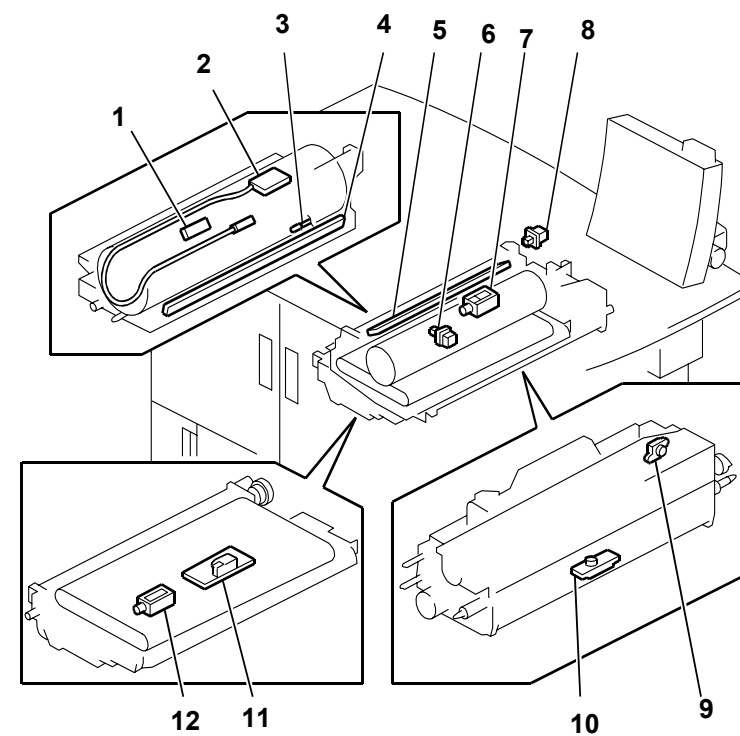


Fig-2

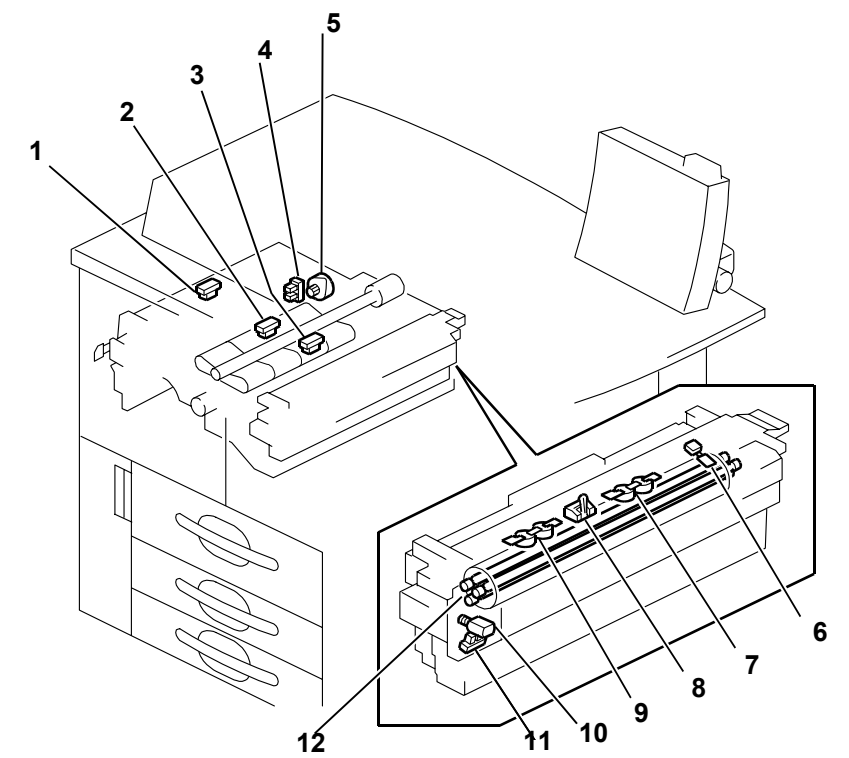


Fig-3

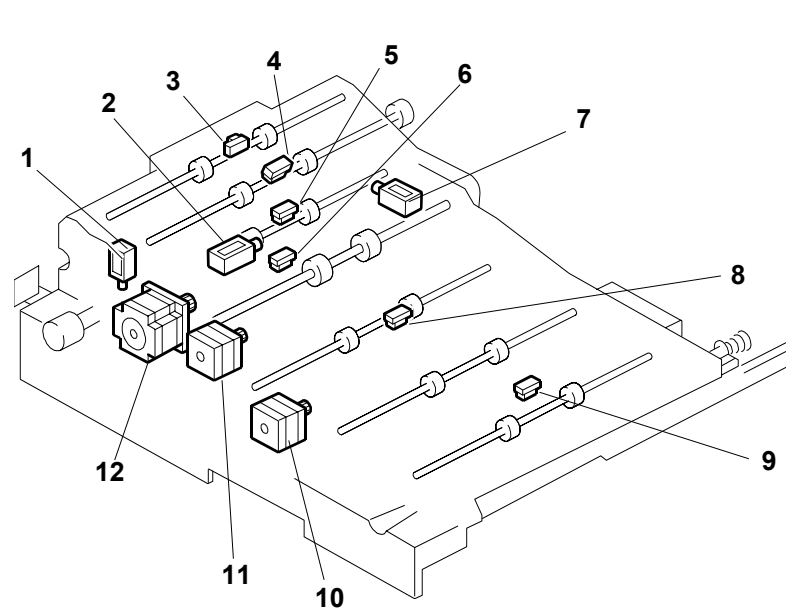


Fig-4

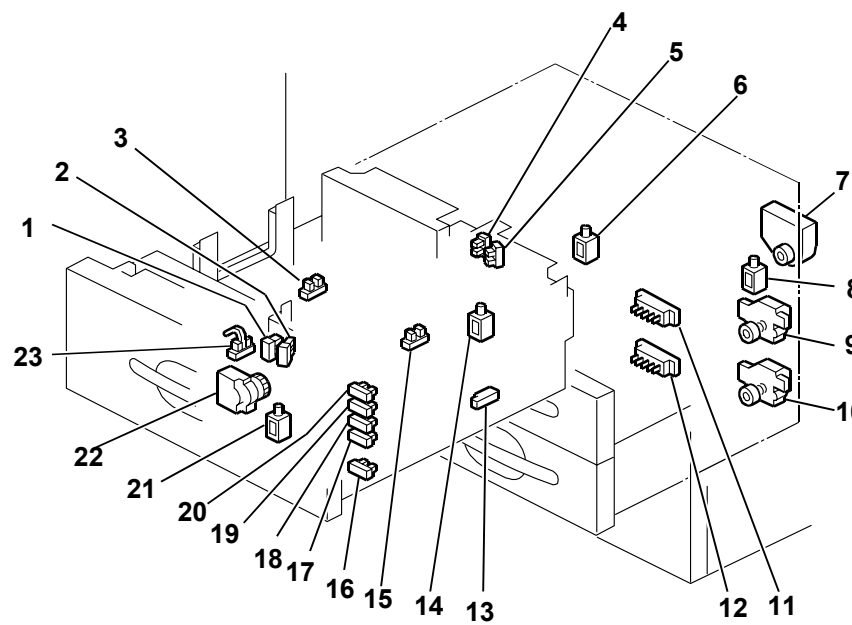


Fig-5

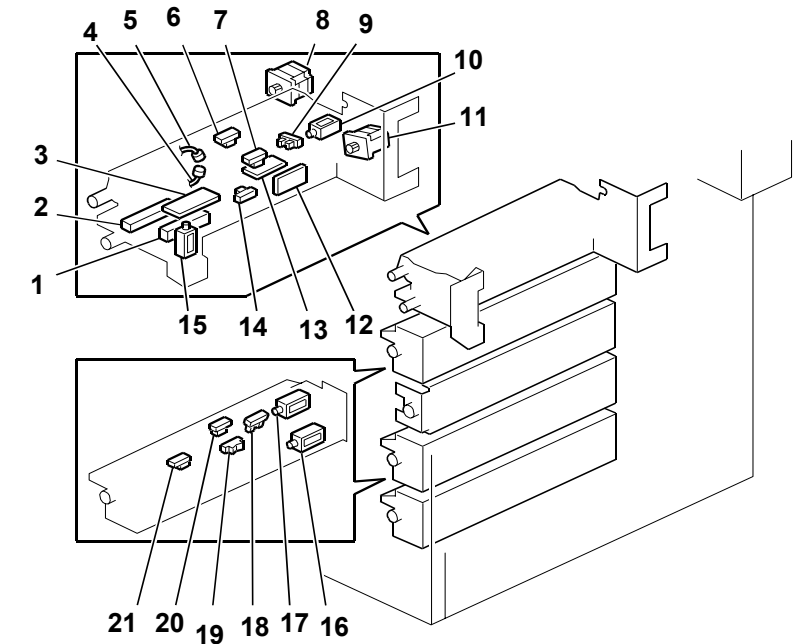


Fig-6



# D059/D060/D061 ELECTRICAL COMPONENT LAYOUT (2/3)

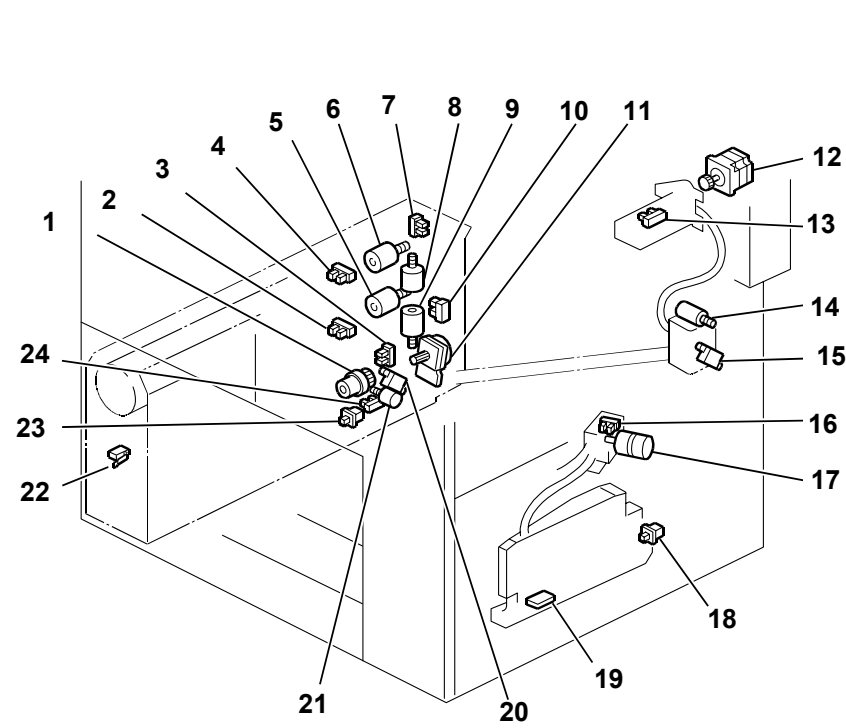


Fig.-7

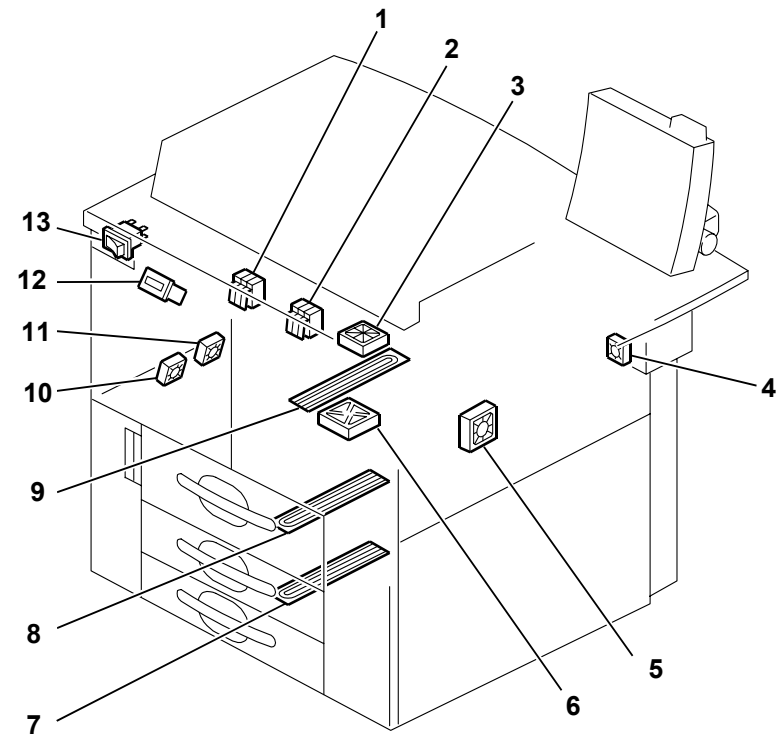


Fig.-8

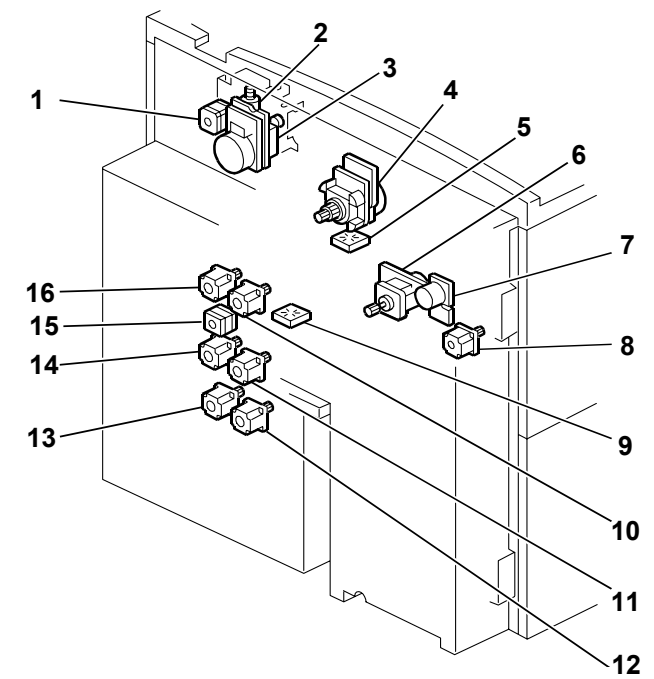


Fig.-9

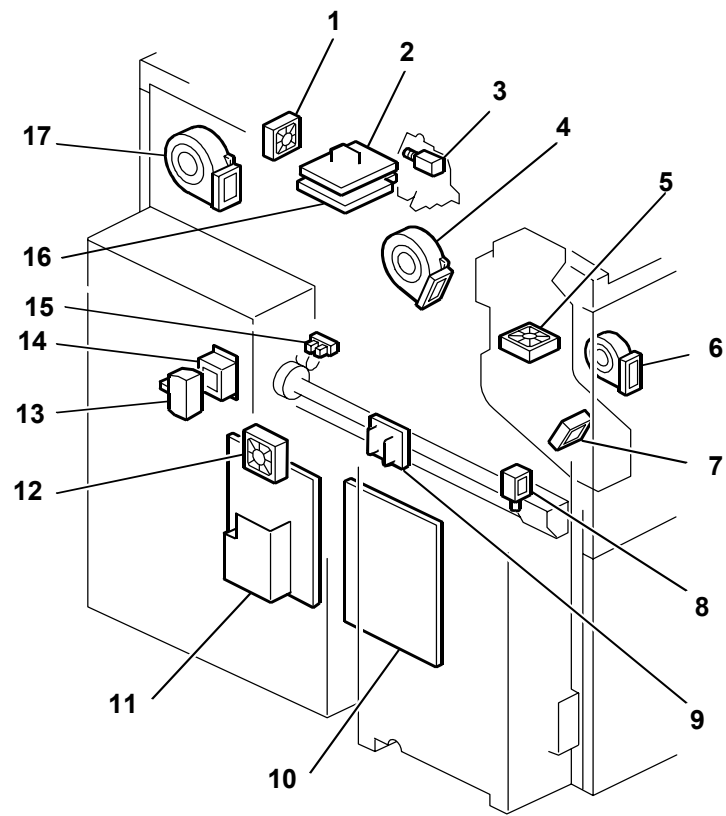


Fig.-10

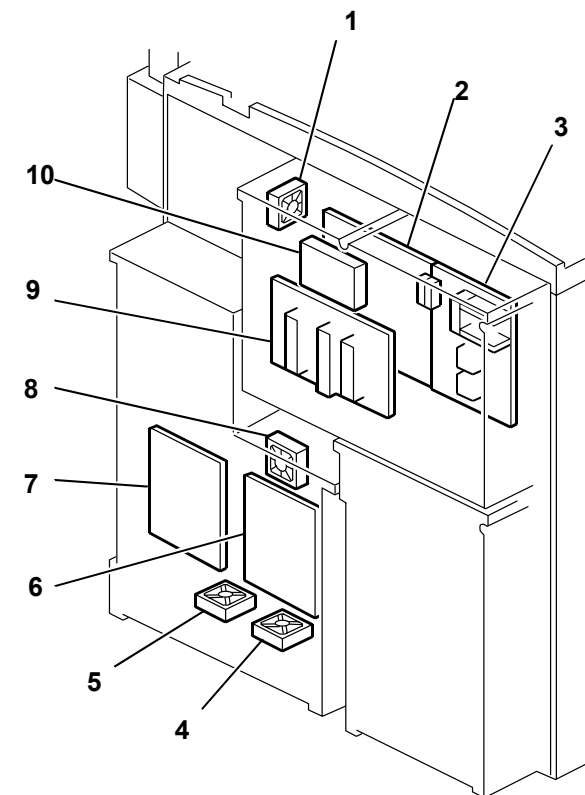


Fig.-11

# D059/D060/D061 ELECTRICAL COMPONENT LAYOUT (3/3)

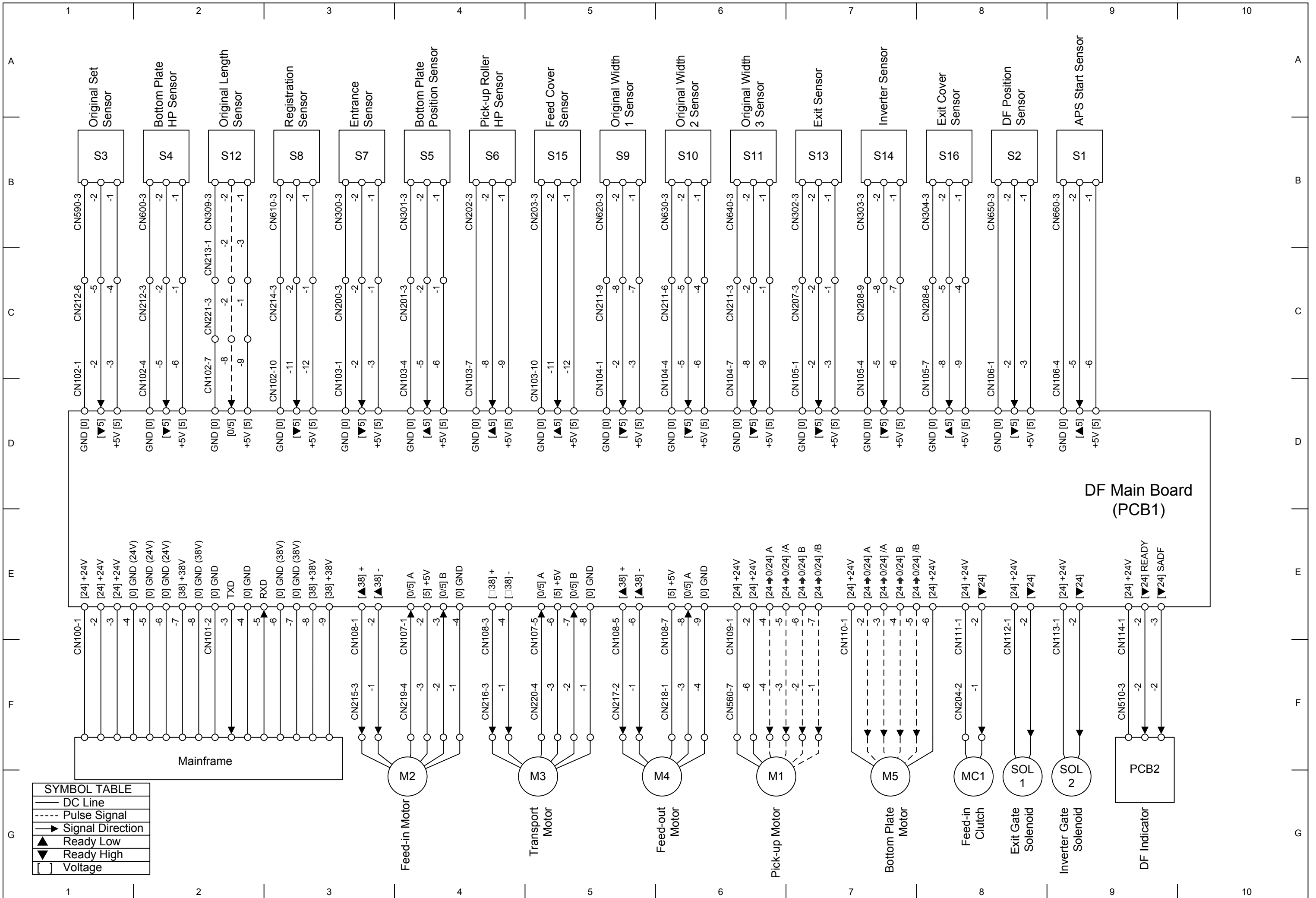
Symbol	Index No.	Description	P to P
<b>Clutch</b>			
CL1	F7-1	Toner Supply Coil Clutch	F9 (2/3)
<b>Heaters</b>			
H1	F1-5	Optics Anti-condensation Heater	A6 (2/3)
H2	F8-9	Transfer Anti-Condensation Heater	A6 (2/3)
H3	F8-8	Tray Anti-Condensation Heater 1 (Upper)	A6 (2/3)
H4	F8-7	Tray Anti-Condensation Heater 2 (Lower)	A6 (2/3)
H5	-	LCT Anti-Condensation Heater	A6 (2/3)
<b>Lamps</b>			
L1	F1-8	Exposure Lamp 2	A9 (1/3)
L2	F1-8	Exposure Lamp 1	A9 (1/3)
L3	F3-12	Fusing Heater 1	B4 (2/3)
L4	F3-12	Fusing Heater 2	B4 (2/3)
L5	F3-12	Fusing Heater 3	B4 (2/3)
L6	F2-4	PTL	C2 (2/3)
QL1	F2-5	Quenching Lamp	D7 (2/3)
<b>Motors</b>			
M1	F1-3	Scanner Motor Cooling Fan	A8 (1/3)
M2	F1-6	Scanner Exhaust Fan: Front Right	A8 (1/3)
M3	F1-18	Lamp Regulator Fan (Right)	B9 (1/3)
M4	F1-1	Lamp Regulator Fan (Left)	B9 (1/3)
M5	F1-14	Scanner Intake Fan :Back Right	B8 (1/3)
M6	F1-13	SBU Cooling Fan	B8 (1/3)
M7	F11-4	Scanner Motor	D10 (1/3)
M8	F1-20	Polygon Mirror Motor	F6 (1/3)
M9	F7-17	Toner Suction Motor	B4 (2/3)
M10	F8-4	Development Unit Cooling Fan Motor 1	B4 (2/3)
M11	F8-5	Development Unit Cooling Fan Motor 2	B4 (2/3)
M12	F9-1	Toner Supply Motor	C4 (2/3)
M13	F9-9	Transport Motor Cooling Fan	C4 (2/3)
M14	F10-17	Drum Cooling Fan	C4 (2/3)
M15	F9-5	Drum Transport Pipe Cooling Fan	D4 (2/3)
M16	F7-14	Toner Cylinder Agitator Motor	D4 (2/3)
M17	F9-3	Development Motor	D4 (2/3)
M18	F9-2	Hopper Agitator Motor	D4 (2/3)
M19	F9-7	Exit Motor	D5 (2/3)
M20	F9-6	Fusing Motor	D5 (2/3)
M21	F3-10	Cleaning Fabric Motor	D5 (2/3)
M22	F10-4	Drum Exhaust Fan	D6 (2/3)
M23	F1-22	Polygon Mirror Motor Cooling Fan	D7 (2/3)
M24	F8-3	Cleaning Unit Cooling Fan	D7 (2/3)
M25	F9-4	Charge Corona Wire Cleaner Moto	D7 (2/3)
M26	F5-7	1st Tray Lift Motor	D8 (2/3)
M27	F5-9	2nd Tray Lift Motor	D8 (2/3)
M28	F5-10	3rd Tray Lift Motor	D8 (2/3)
M29	F7-21	Toner Collection Bottle Agitator Motor	G9 (2/3)
M30	F7-11	Toner Bank Motor	F9 (2/3)
M31	F7-9	Lower Toner Bottle Motor	F9 (2/3)
M32	F7-5	Lower Bottle Cap Motor	F9 (2/3)
M33	F7-8	Upper Toner Bottle Motor	F9 (2/3)
M34	F7-6	Upper Bottle Cap Motor	F9 (2/3)
M35	F5-22	Rear Fence Drive Motor	F8 (2/3)
M36	F9-12	3rd Paper Feed Motor	F7 (2/3)
M37	F9-11	2nd Paper Feed Motor	F7 (2/3)
M38	F9-10	1st Paper Feed Motor	F6 (2/3)
M39	F9-13	3rd Transport Motor	F6 (2/3)
M40	F9-14	2nd Transport Motor	F6 (2/3)

Symbol	Index No.	Description	P to P
M41	F9-15	Vertical Relay Motor	F6 (2/3)
M42	F9-16	1st Transport Motor	F6 (2/3)
M43	F6-8	Registration Motor	F4 (2/3)
M44	F6-11	Upper Relay Motor	F4 (2/3)
M45	F7-12	Toner Supply Pump Motor	G4 (2/3)
M46	F4-11	Switchback Motor	E2 (2/3)
M47	F4-10	Duplex Transport Motor	E2 (2/3)
M48	F4-12	Duplex/Inverter Motor	E2 (2/3)
M49	F9-8	Duplex Entrance Motor	D2 (2/3)
M50	F10-12	Toner Collection Unit Cooling Fan	D2 (2/3)
M51	F10-1	Power Pack Fan	B2 (2/3)
M52	F10-7	Paper Cooling Pipe Fan 2	B2 (2/3)
M53	F10-5	Paper Cooling Pipe Fan 1	B2 (2/3)
M54	F10-3	Charge Corona Wire Cleaner Motor	B2 (2/3)
M55	F8-6	Duplex Cooling Fan	B2 (2/3)
M56	F8-11	Duplex Entrance Cooling Fan 2	B2 (2/3)
M57	F8-10	Duplex Entrance Cooling Fan 1	B2 (2/3)
M58	-	Paper Dehumidifier Fan	B2 (2/3)
M60	F10-6	Moisture Removal Fan	B2 (2/3)
M61	F3-5	Exit Junction Gate Motor	A2 (2/3)
M62	F11-8	PSU Box Fan 3	B6 (2/3)
M63	F11-5	PSU Box Fan 1	C5 (2/3)
M64	F11-4	PSU Box Fan 2	C5 (2/3)
M65	F11-1	Controller Board Fan	B4 (1/3)
M66	-	CPU Fan	B4 (1/3)
<b>PCBs</b>			
PCB1	F1-16	Connector Board	A4 (1/3)
PCB2	F1-13	SBU	A5 (1/3)
PCB3	F1-15	SIB	A7 (1/3)
PCB4	F1-19	Lamp Regulator (Left)	A9 (1/3)
PCB5	F1-25	Lamp Regulator (Right)	A9 (1/3)
PCB6	F11-7	MCU	C9 (1/3)
PCB7	F1-10	Operation Panel Unit	E7 (1/3)
PCB8	-	Main Key Board	E9 (1/3)
PCB9	-	Sub Key Board	D10 (1/3)
PCB10	-	TTP	F9 (1/3)
PCB11	-	Status LED	F9 (1/3)
PCB12	F1-10	LCD SVGA TFT	F9 (1/3)
PCB13	-	Inverter	G9 (1/3)
PCB14	F11-2	BICU	D4 (1/3)
PCB15	F1-24	Polygon Mirror Motor Control Board	F5 (1/3)
PCB16	F1-23	LDB	F4 (1/3)
PCB17	F1-21	Laser Synchronization Detector Board	G4 (1/3)
PCB18	F10-10	IOB	E4 (2/3)
PCB19	F6-12	CIS Relay Board (Bank)	F2 (2/3)
PCB20	F6-3	URB	F2 (2/3)
PCB21	F6-13	CIS Relay Board (Duplex)	E2 (2/3)
PCB22	F10-11	AC Drive Board	A5 (2/3)
PCB23	F11-7	PSU-E-A	B6 (2/3)
PCB24	F10-9	Relay Interlock SW	C5 (2/3)
PCB25	F11-9	PSU-C	B8 (2/3)
PCB26	F11-6	PSU-B	C6 (2/3)
PCB27	F11-3	Controller Board	B2 (1/3)
<b>Power Packs</b>			
PP1	F2-11	Transfer Power Pack	D5 (2/3)
PP2	F10-16	CGB Power Pack	D6 (2/3)
PP3	F10-2	PPG Power Pack	D6 (2/3)

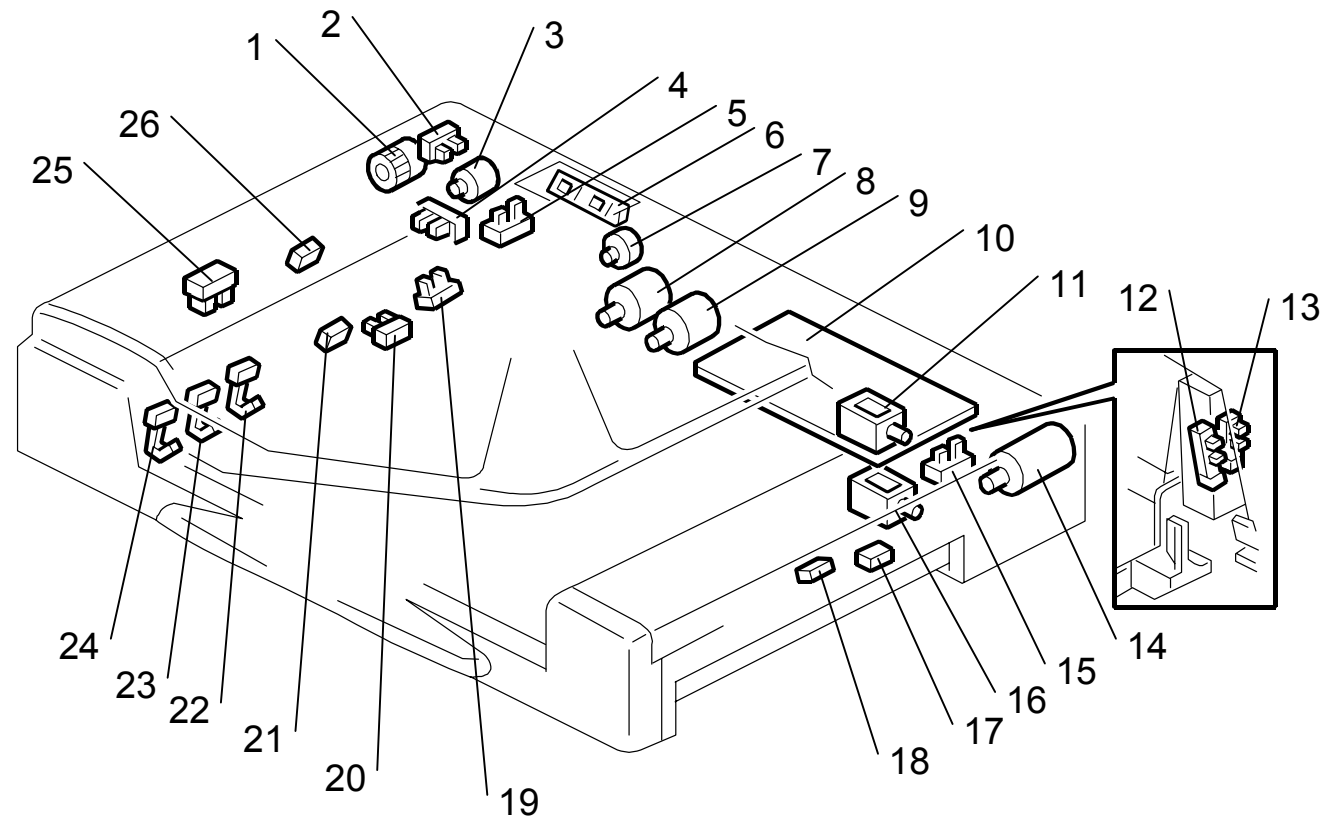
Symbol	Index No.	Description	P to P
<b>Sensors</b>			
S1	F11-2	Scanner HP Sensor	C10 (1/3)
S2	F11-9	Original Width Sensors	C10 (1/3)
S3	F1-10	Original Length Sensor 1	C10 (1/3)
S4	F1-11	Original Length Sensor 2	C10 (1/3)
S5	F7-16	Developer Suction Fan Sensor	B4 (2/3)
S6	F2-10	TD Sensor	C4 (2/3)
S7	F2-9	Toner Hopper Sensor	C4 (2/3)
S8	F7-13	Toner Pump Motor Sensor	C4 (2/3)
S9	F7-15	Toner Hopper Sensor	D4 (2/3)
S10	F10-15	Toner Collection Coil Sensor	D5 (2/3)
S11	F3-11	Cleaning Fabric End Sensor	D5 (2/3)
S12	F3-8	Fusing Exit Sensor	D5 (2/3)
S13	F7-19	Temperature/Humidity Sensor	D9 (2/3)
S14	F5-12	3rd Tray Paper Size Sensor	D8 (2/3)
S15	F5-11	2nd Tray Paper Size Sensor	D9 (2/3)
S16	F7-20	Toner Bottle End Sensor	F9 (2/3)
S17	F7-24	Toner Collection Bottle Agitator Sensor	F9 (2/3)
S18	F7-3	Toner Collection Bottle Overflow Sensor	F9 (2/3)
S19	F7-10	Lower Bottle Inner Cap Sensor	F9 (2/3)
S20	F7-2	Lower Toner Bottle Sensor	F9 (2/3)
S21	F7-7	Upper Toner Bottle Inner Cap Sensor	F9 (2/3)
S22	F7-4	Upper Toner Bottle Sensor	F9 (2/3)
S23	F5-23	Left 1st Tray Paper Sensor	F8 (2/3)
S24	F5-15	Rear Fence Return Sensor	F8 (2/3)
S25	F5-3	Rear Fence HP Sensor	F8 (2/3)
S26	F5-13	Right Tray Paper Set Sensor	F8 (2/3)
S27	F5-17	1st Tray Paper Height 4 Sensor	F8 (2/3)
S28	F5-18	1st Tray Paper Height 3 Sensor	F8 (2/3)
S29	F5-19	1st Tray Paper Height 2 Sensor	F8 (2/3)
S30	F5-20	1st Tray Paper Height 1 Sensor	F7 (2/3)
S31	F5-16	Lower Limit Sensor	F7 (2/3)
S32	F5-4	Rear Side Fence Closed Sensor	F7 (2/3)
S33	F5-5	Rear Side Fence Open Sensor	F7 (2/3)
S34	F5-1	Front Side Fence Closed Sensor	F7 (2/3)
S35	F5-2	Front Side Fence Open Sensor	F7 (2/3)
S36	F6-19	Vertical Transport Sensor 3	F5 (2/3)
S37	F6-18	3rd Tray Lift Sensor	F5 (2/3)
S38	F6-20	3rd Paper End Sensor	F5 (2/3)
S39	F6-21	3rd Paper Feed Sensor	F5 (2/3)
S40	F6-19	Vertical Transport Sensor 2	F5 (2/3)
S41	F6-18	2nd Tray Lift Sensor	F5 (2/3)
S42	F6-20	2nd Paper End Sensor	F5 (2/3)
S43	F6-21	2nd Paper Feed Sensor	F5 (2/3)
S44	F6-19	Vertical Transport Sensor 1	F4 (2/3)
S45	F6-18	1st Tray Lift Sensor	F4 (2/3)
S46	F6-20	1st Paper End Sensor	F4 (2/3)
S47	F6-21	1st Paper Feed Sensor	F4 (2/3)
S48	F6-1	Image Position Sensor (Bank)	F1 (2/3)
S49	F6-7	LCT Relay Sensor	F2 (2/3)
S50	F6-14	Main Machine Relay Sensor	F2 (2/3)
S51	F6-9	Guide Plate Open/Close Sensor	F2 (2/3)
S52	F6-5	Double-Feed Sensor: R	F1 (2/3)
S53	F6-4	Double-Feed Sensor: E	F1 (2/3)
S54	F6-6	Registration Sensor	F1 (2/3)
S55	F6-2	Image Position Sensor (Duplex)	E1 (2/3)

Symbol	Index No.	Description	P to P
S56	F4-8	Duplex Transport Sensor 2	D2 (2/3)
S57	F4-6	Duplex Transport Sensor 1	D2 (2/3)
S58	F4-5	Duplex Inverter Sensor	D2 (2/3)
S59	F4-4	Duplex Entrance Sensor	D2 (2/3)
S60	F4-3	Duplex Inverter Relay Sensor	D2 (2/3)
S61	F4-9	Duplex Transport Sensor 3	D2 (2/3)
S62	F2-2	Drum Potential Sensor	C2 (2/3)
S63	F2-1	ID Sensor	C2 (2/3)
S64	F3-4	Exit Junction Gate HP Sensor	B2 (2/3)
S65	F2-3	Job Time Sensor	B2 (2/3)
S66	F3-1	Exit Sensor	A2 (2/3)
<b>Solenoids</b>			
SOL1	F6-10	Guide Plate Solenoid	D4 (2/3)
SOL2	F2-12	Transfer Belt Lift Solenoid	D6 (2/3)
SOL3	F2-7	2nd Cleaning Blade Solenoid	D7 (2/3)
SOL4	F5-6	Left Tandem Tray Lock Solenoid	D8 (2/3)
SOL5	F5-8	Tandem Tray Connect Solenoid	D8 (2/3)
SOL6	F5-14	Rear Side Fence Solenoid	F7 (2/3)
SOL7	F5-21	Front Side Fence Solenoid	F7 (2/3)
SOL8	F6-16	3rd Separation Roller Solenoid	F5 (2/3)
SOL9	F6-17	3rd Pick-up Solenoid	F5 (2/3)
SOL10	F6-16	2nd Separation Roller Solenoid	F5 (2/3)
SOL11	F6-17	2nd Pick-up Solenoid	F5 (2/3)
SOL12	F6-16	1st Separation Roller Solenoid	F4 (2/3)
SOL13	F6-17	1st Pick-up Solenoid	F4 (2/3)
SOL14	F6-15	LCT Guide Plate Solenoid	F2 (2/3)
SOL15	F4-1	Duplex/Inverter Junction Gate Solenoid	E2 (2/3)
SOL16	F4-7	Switchback Junction Gate	D2 (2/3)
SOL17	F4-2	Switchback Idle Roller Solenoid	D2 (2/3)
SOL18	F10-8	Toner Recycling Shutter Solenoid	B2 (2/3)
<b>Switches</b>			
SW1	F8-2	Right Front Door Safety Switch	G4 (1/3)
SW2	F8-1	Left Front Door Safety Switch	G4 (1/3)
SW3	F2-6	2nd Cleaning Blade Release Switch	D7 (2/3)
SW4	F7-18	Toner Suction Bottle Set Switch	D9 (2/3)
SW5	F7-23	Toner Collection Bottle Set Switch	F9 (2/3)
SW6	F7-22	Toner Bottle Front Door SW	G3 (2/3)
SW7	F8-2	Right Front Door Safety Switch 2	C2 (2/3)
SW8	F8-1	Left Front Door Safety Switch 2	C2 (2/3)
SW9	F2-8	Cleaning Unit Set SW	B2 (2/3)
SW10	F10-13	Circuit Breaker	A4 (2/3)
SW11	F8-13	Main Power Switch	B6 (2/3)
<b>TC</b>			
TC1	F8-12	Total Counter	D7 (2/3)
<b>TH</b>			
TH2	F3-6	Thermistor (Fusing Unit)	B4 (2/3)
TH1	F2-3	Thermistor (Drum Unit)	C2 (2/3)
<b>TS</b>			
TS1	F3-7	Thermostat 1	A4 (2/3)
TS2	F3-7	Thermostat 2	A4 (2/3)
TS3	F3-9	Thermostat 3	A4 (2/3)
TS4	F3-9	Thermostat 4	A4 (2/3)
<b>Other</b>			
E	-	Encoder	D10 (1/3)
HDD	F11-10	HDD	C4 (3/3)
NF1	F10-14	Noise Filter	A5 (2/3)

# ADF for D059/D060/D061 POINT TO POINT DIAGRAM

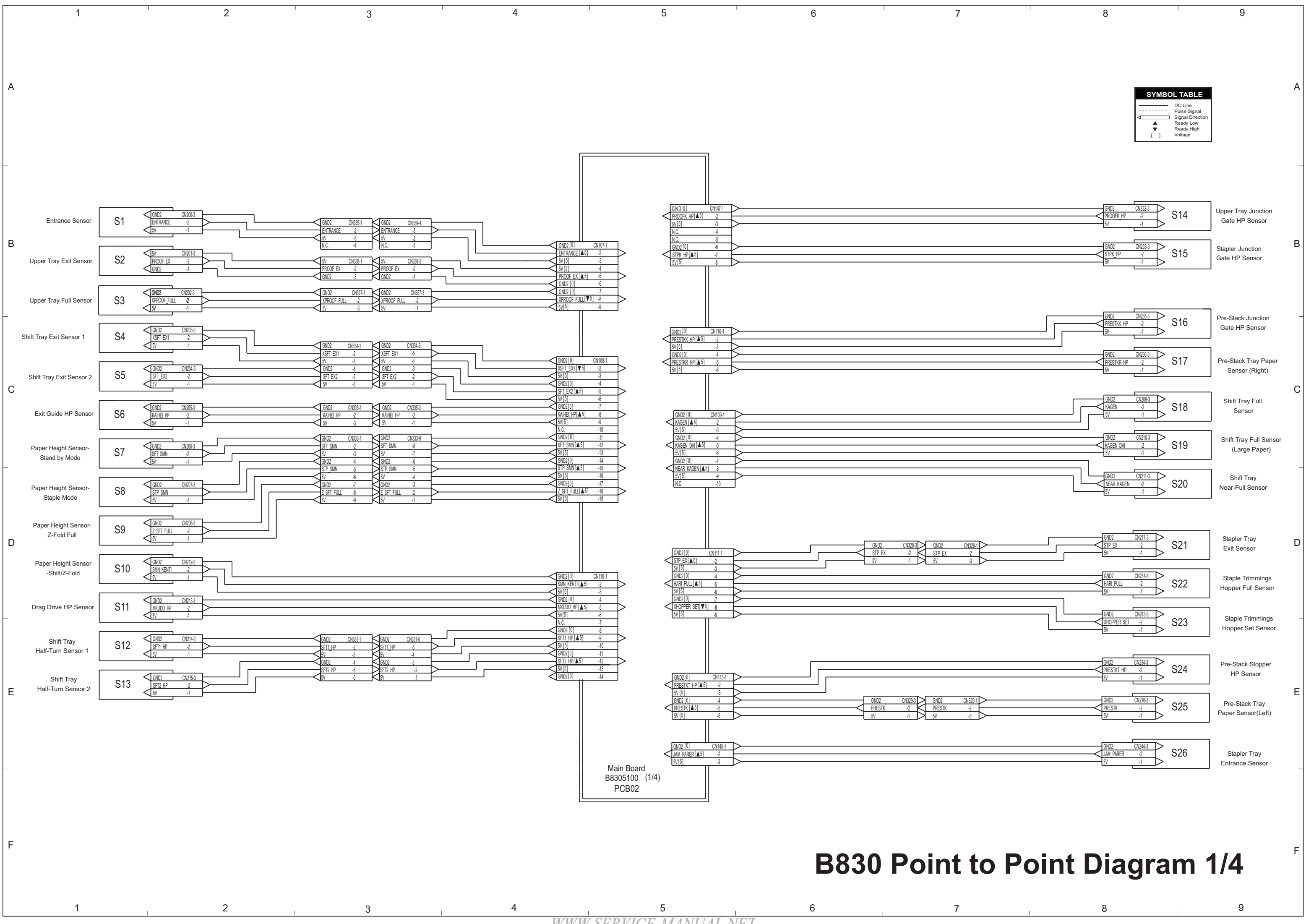


# ADF ELECTRICAL COMPONENT LAYOUT



Symbol	Index No.	Description	P to P
<b>Motors</b>			
M1	3	Pick-up	G6
M2	8	Feed-in	G4
M3	9	Transport	G5
M4	14	Feed-out	G6
M5	7	Bottom plate	G7
<b>Sensors</b>			
S1	12	APS Start	B9
S2	13	DF Position	B8
S3	19	Original Set	B1
S4	20	Bottom Plate HP	B2
S5	4	Bottom Plate Position	B4
S6	2	Pick-up Roller HP	B4
S7	26	Entrance	B3
S8	21	Registration	B3
S9	22	Original Width 1	B5
S10	23	Original Width 2	B6
S11	24	Original Width 3	B6
S12	25	Original Length	B2
S13	18	Exit	B7
S14	17	Inverter	B7
S15	5	Feed Cover	B5
S16	15	Exit Cover	B8
<b>Solenoids</b>			
SOL1	16	Exit Gate	G8
SOL2	11	Inverter Gate	G9
<b>Magnetic Clutches</b>			
MC1	1	Feed-in	G8
<b>PCBs</b>			
PCB1	10	DF Main	D9
PCB2	6	DF Indicator	G9



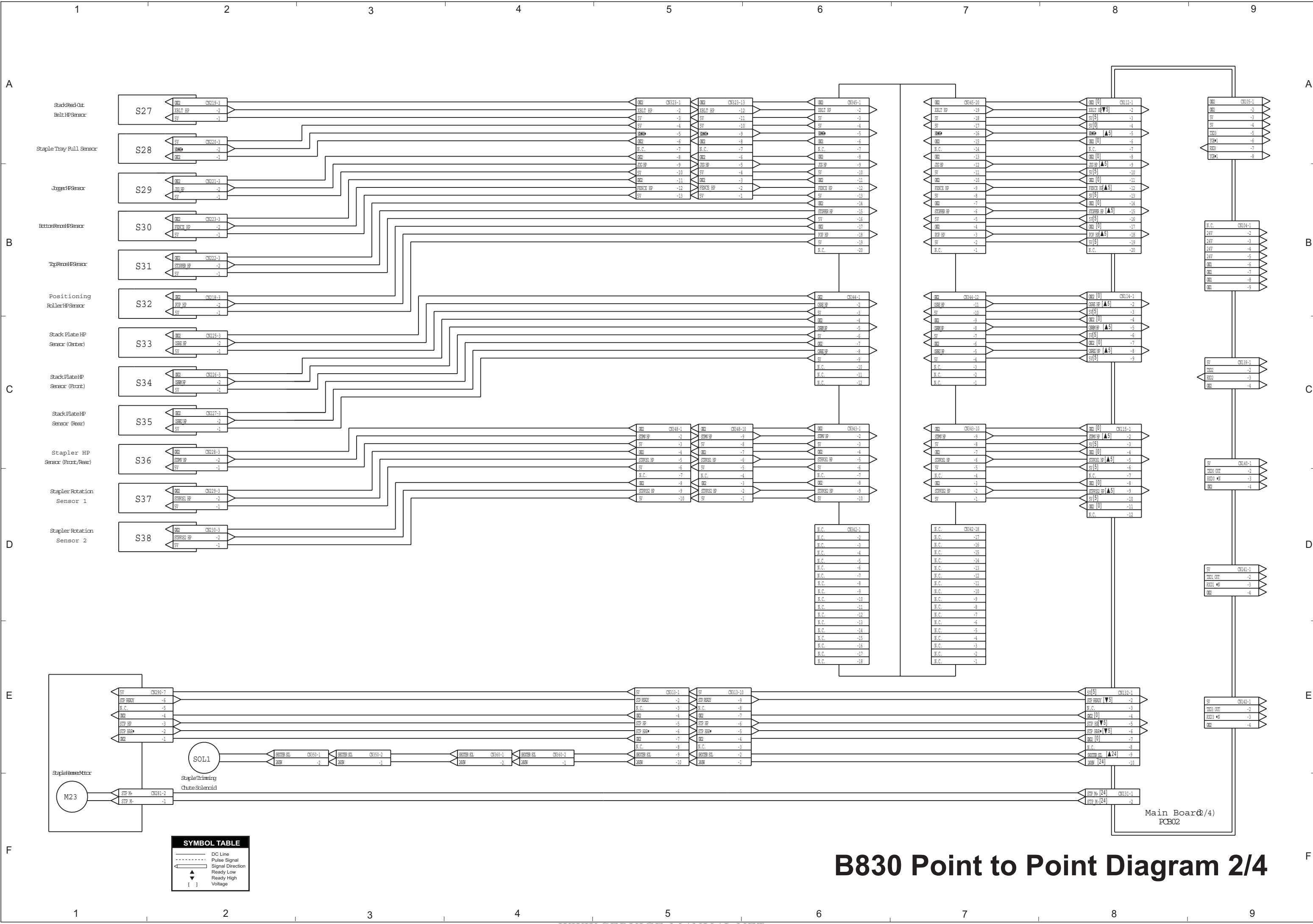


**SYMBOL TABLE**

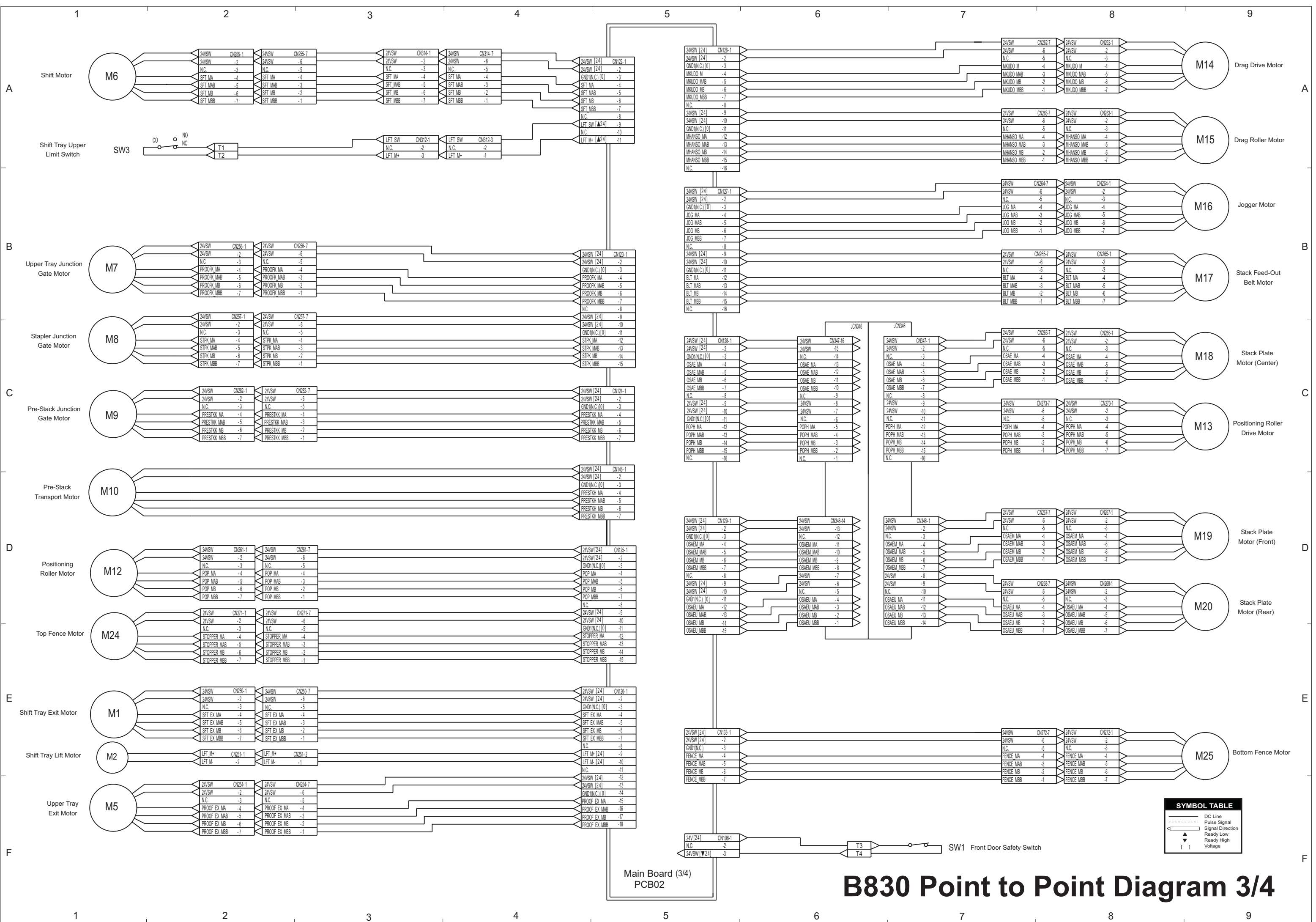
- DC Line
- - - - Pulse Signal
- Signal Direction
- ▲ Ready Low
- ▼ Ready High
- [ ] Voltage

Main Board  
B8305100 (1/4)  
PCB02

# B830 Point to Point Diagram 1/4



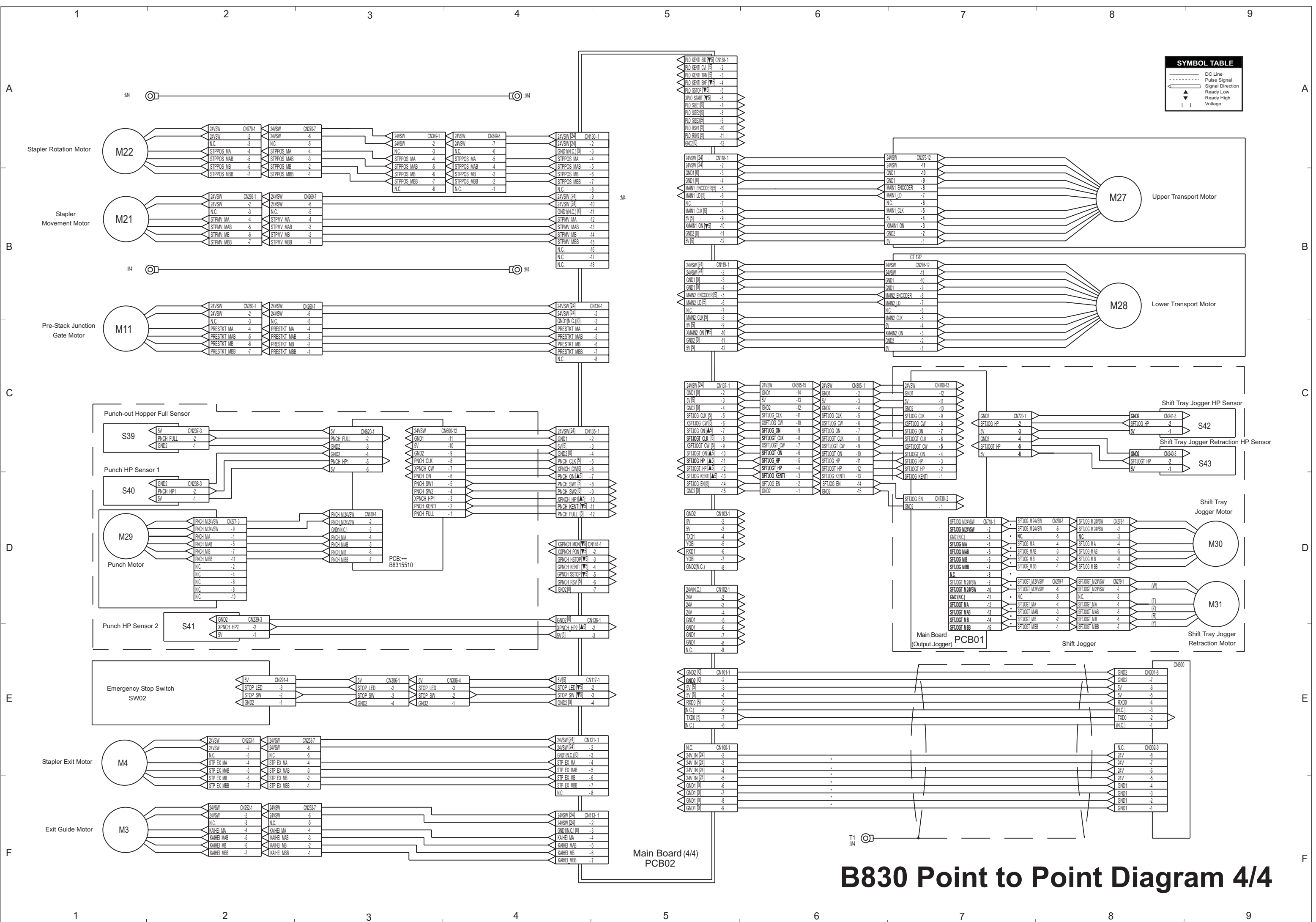
# B830 Point to Point Diagram 2/4



**SYMBOL TABLE**

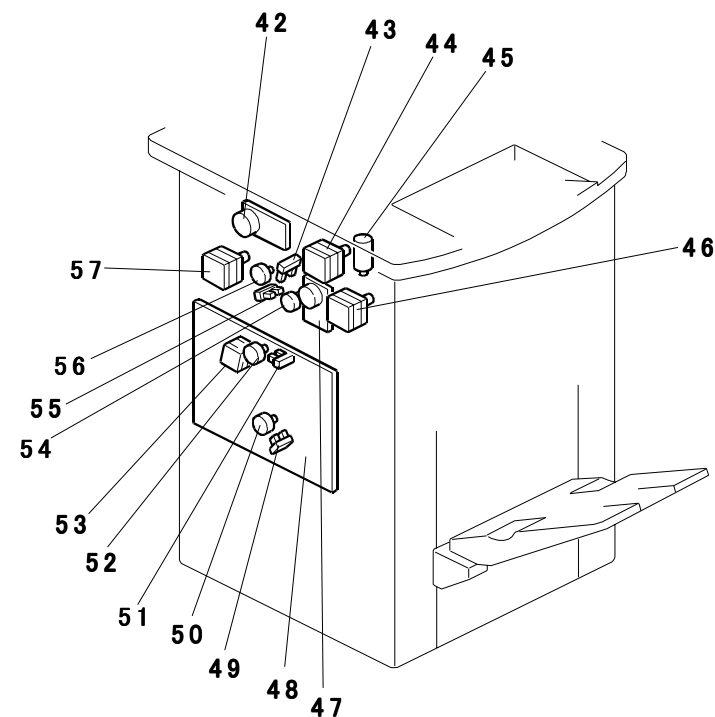
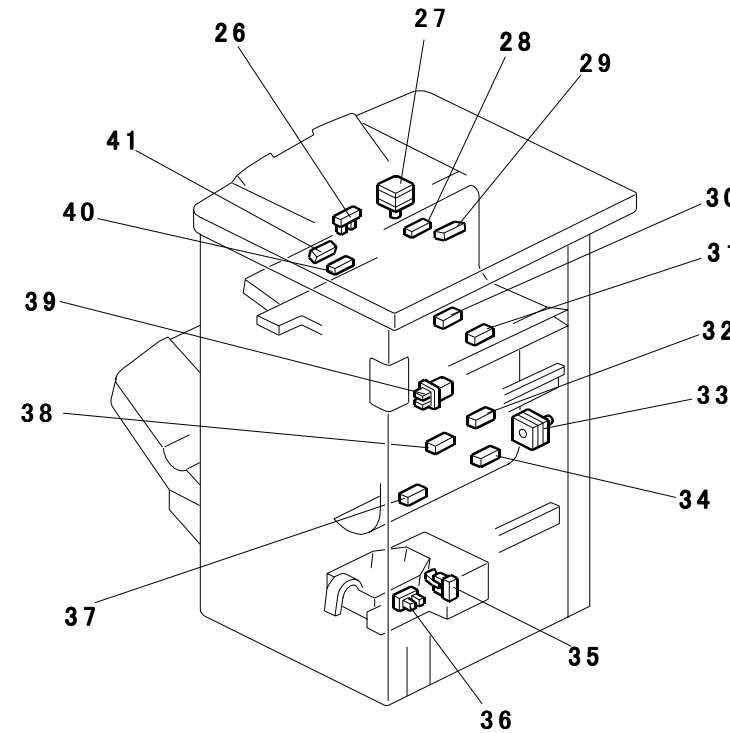
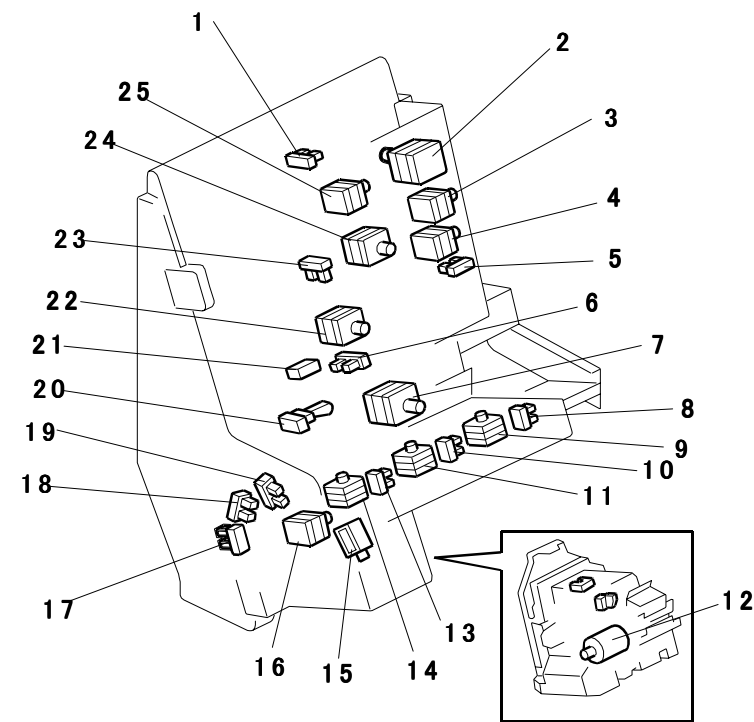
- DC Line
- - - Pulse Signal
- Signal Direction
- ◀ Ready Low
- ▶ Ready High
- [ ] Voltage

# B830 Point to Point Diagram 3/4



# B830 Point to Point Diagram 4/4

# B830 ELECTRICAL COMPONENT LAYOUT

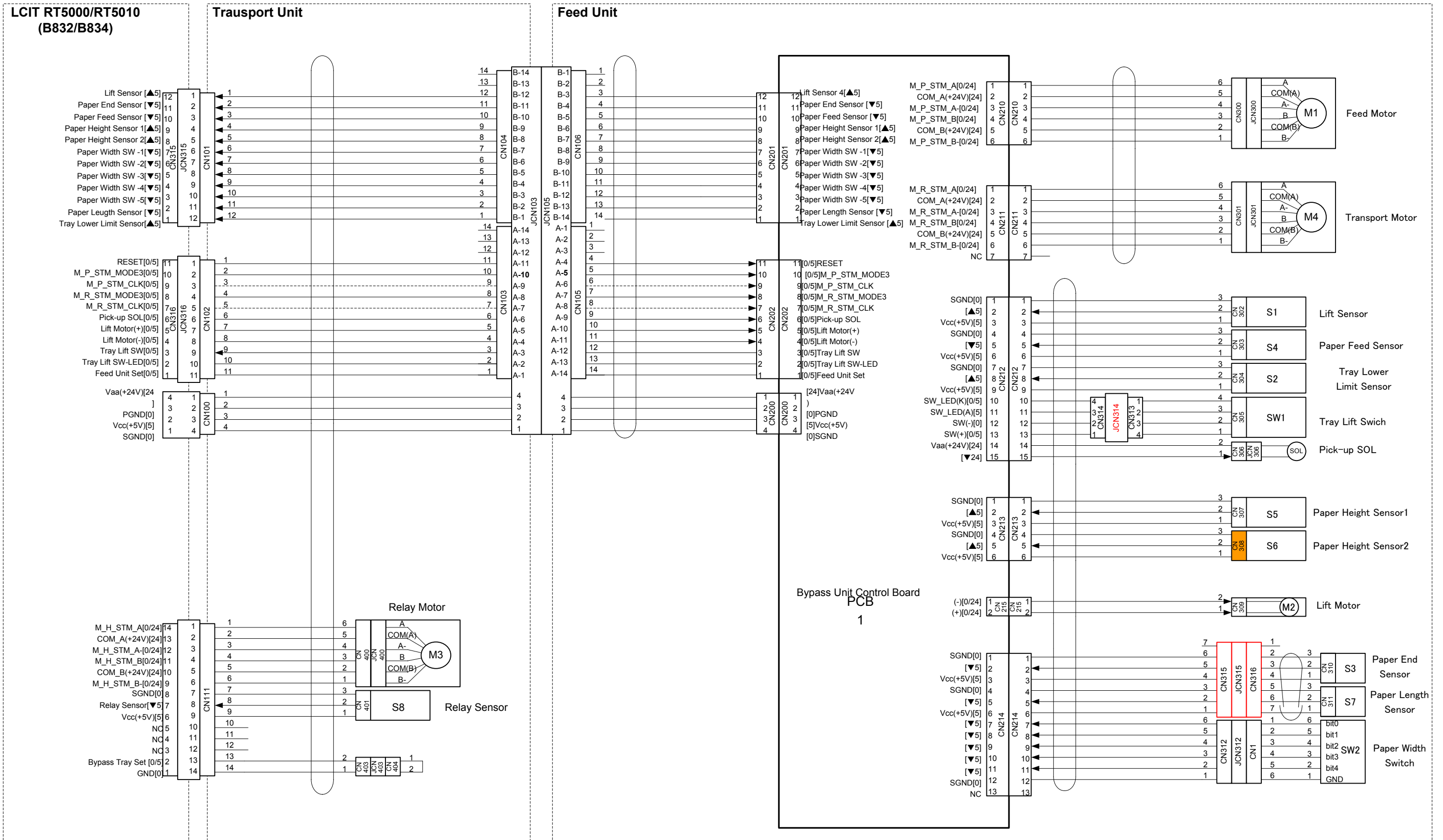


Symbol	Index No.	Description	P to P
<b>Motors</b>			
M1	46	Shift Tray Exit Motor	3-E1
M2	45	Shift Tray Lift Motor	3-E1
M3	27	Exit Guide Motor	4-F1
M4	33	Stapler Exit Motor	4-E1
M5	44	Upper Tray Exit Motor	3-F1
M6	67	Shift Motor	3-A1
M7	54	Upper Tray Junction Gate Motor	3-B1
M8	56	Stapler Junction Gate Motor	3-C1
M9	52	Pre-Stack Junction Gate Motor	3-C1
M10	53	Pre-Stack Transport Motor	3-D1
M11	50	Pre-Stack Stopper Motor	4-C1
M12	4	Positioning Roller Motor	3-D1
M13	3	Positioning Roller Drive Motor	3-C9
M14	71	Drag Drive Motor	3-A9
M15	72	Drag Roller Motor	3-A9
M16	24	Jogger Motor	3-B9
M17	25	Stack Feed-Out Belt Motor	3-B9
M18	11	Stack Plate Motor (Center)	3-C9
M19	14	Stack Plate Motor (Front)	3-D9
M20	9	Stack Plate Motor (Rear)	3-D9
M21	7	Stapler Movement Motor	4-B1
M22	16	Stapler Rotation Motor	4-A1
M23	12	Staple Hammer Motor	2-F1
M24	2	Top Fence Motor	3-E1
M25	22	Bottom Fence Motor	3-E9
M26	42	Upper Transport Motor	4-B8
M28	47	Lower Transport Motor	4-B8
M29	57	Punch Motor	4-D1
M30	58	Shift Tray Jogger Motor	4-D9
M31	74	Shift Tray Jogger Retraction Motor	4-D9
<b>PCB</b>			
PCB1	77	Main Board (Output Jogger)	4-E7
PCB2	48	Main Board	1-E5
<b>Sensors</b>			
S1	31	Entrance Sensor	1-B1
S2	29	Upper Tray Exit Sensor	1-B1
S3	28	Upper Tray Full Sensor	1-B1
S4	41	Shift Tray Exit Sensor 1	1-C1
S5	40	Shift Tray Exit Sensor 2	1-C1
S6	26	Exit Guide HP Sensor	1-C1
S7	60	Paper Height Sensor – Standby Mode	1-C1
S8	61	Paper Height Sensor – Staple Mode	1-D1
S9	62	Paper Height Sensor – Z-Fold Full	1-D1
S10	76	Paper Height Sensor – Shift/Z-Fold	1-D1
S11	64	Drag Drive HP Sensor	1-D1
S12	65	Shift Tray Half-Turn Sensor 1	1-E1
S13	66	Shift Tray Half-Turn Sensor 2	1-E1
S14	55	Upper Tray Junction Gate HP Sensor	1-B9
S15	43	Stapler Junction Gate HP Sensor	1-B9
S16	51	Pre-Stack Junction Gate HP Sensor	1-C9
S17	38	Pre-Stack Tray Paper Sensor (Right)	1-C9
S18	68	Shift Tray Full Sensor	1-C9
S19	70	Shift Tray Full Sensor (Large Paper)	1-C9
S20	69	Shift Tray Near-Full Sensor	1-D9
S21	37	Stapler Tray Exit Sensor	1-D9
S22	36	Staple Trimmings Hopper Full Sensor	1-D9
S23	35	Staple Trimmings Hopper Set Sensor	1-E9
S24	49	Pre-Stack Stopper HP Sensor	1-E9
S25	34	Pre-Stack Tray Paper Sensor (Left)	1-E9
S26	30	Stapler Tray Entrance Sensor	1-E9
S27	20	Stack Feed-Out Belt HP Sensor	2-A1
S28	21	Staple Tray Full Sensor	2-A1
S29	23	Jogger HP Sensor	2-B1
S30	6	Bottom Fence HP Sensor	2-B1
S31	1	Top Fence HP Sensor	2-B1
S32	5	Positioning Roller HP Sensor	2-B1
S33	10	Stack Plate HP Sensor (Center)	2-C1
S34	13	Stack Plate HP Sensor (Front)	2-C1
S35	8	Stack Plate HP Sensor (Rear)	2-C1
S36	17	Stapler HP Sensor (Front/Rear)	2-C1
S37	19	Stapler Rotation Sensor 1	2-D1
S38	18	Stapler Rotation Sensor 2	2-D1

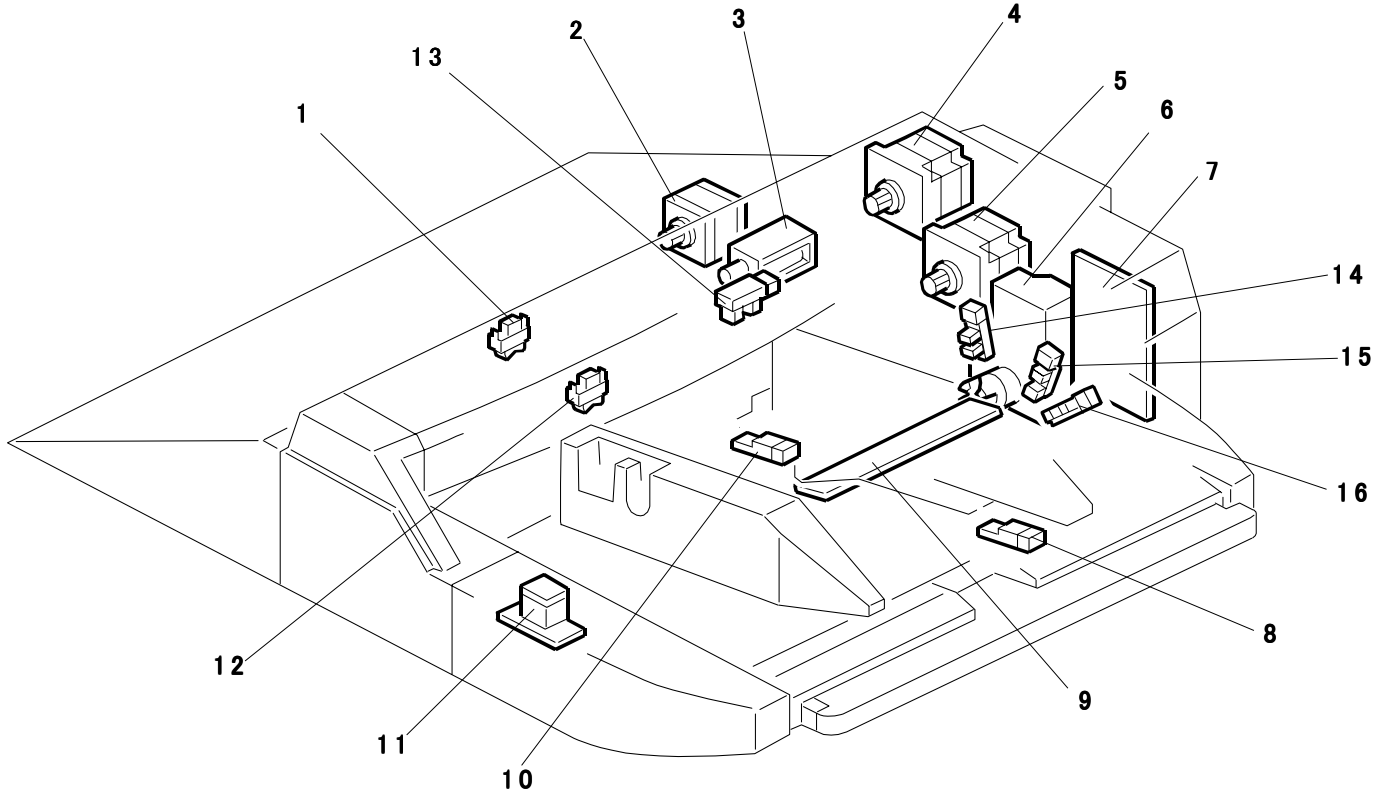


# Multi Bypass Tray BY5000 (B833) Point to Point Diagram

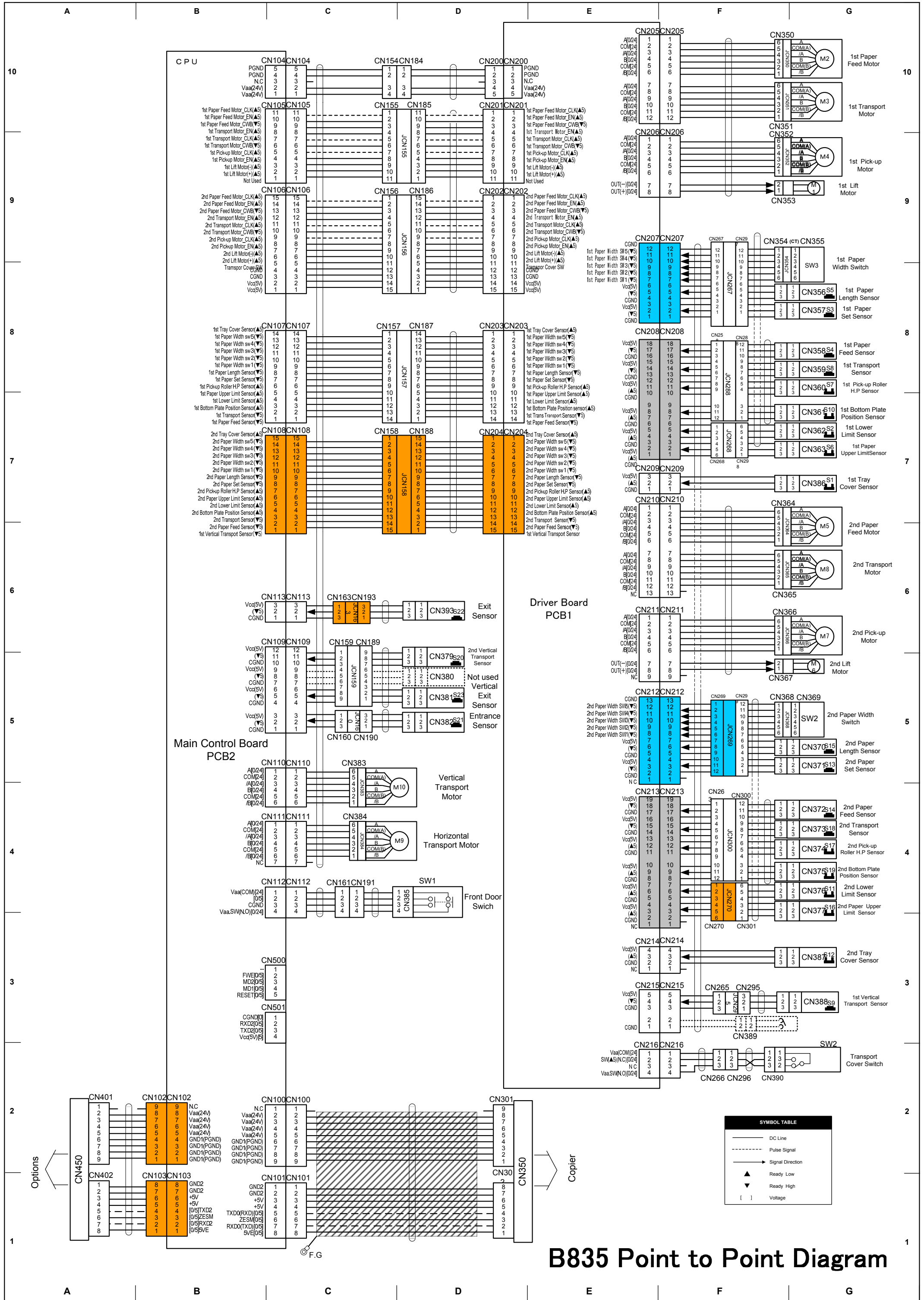
SYMBOL TABLE	
	DC Line
	Pulse Signal
	Signal Direction
	Ready Low
	Ready High
	Voltage



# B833 ELECTRICAL COMPONENT LAYOUT

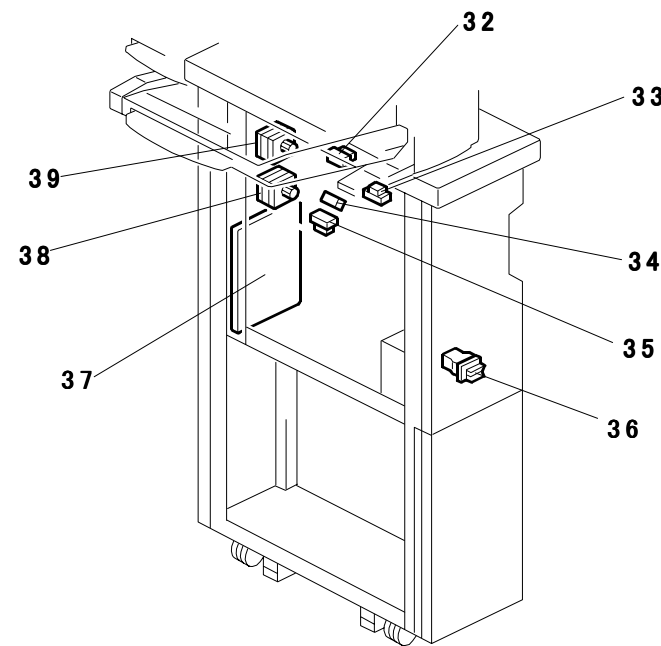
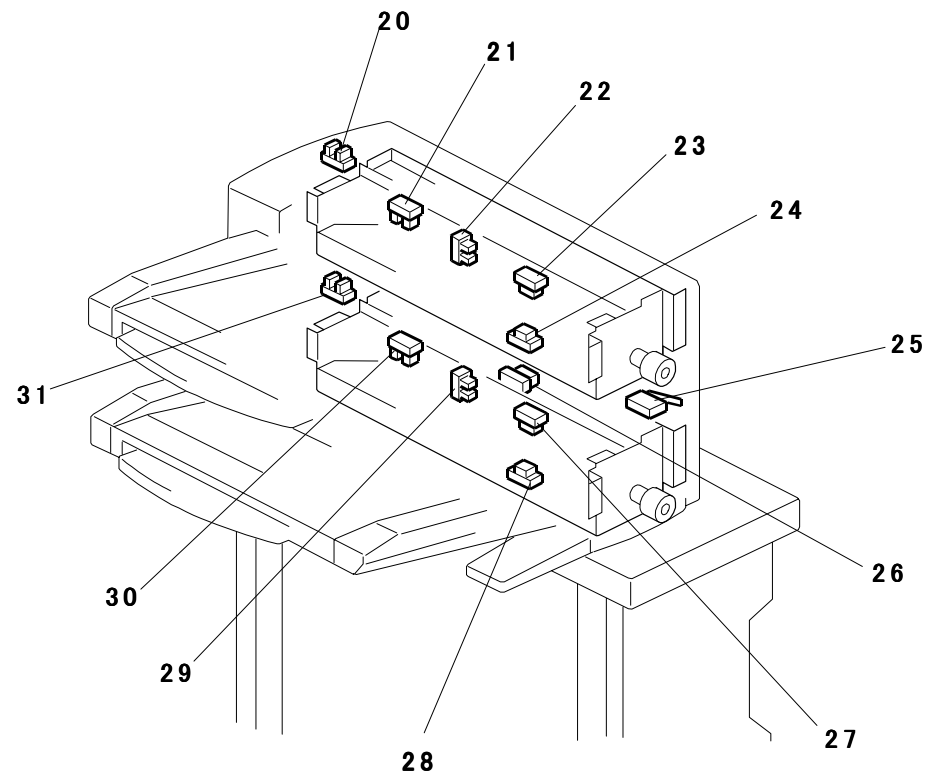
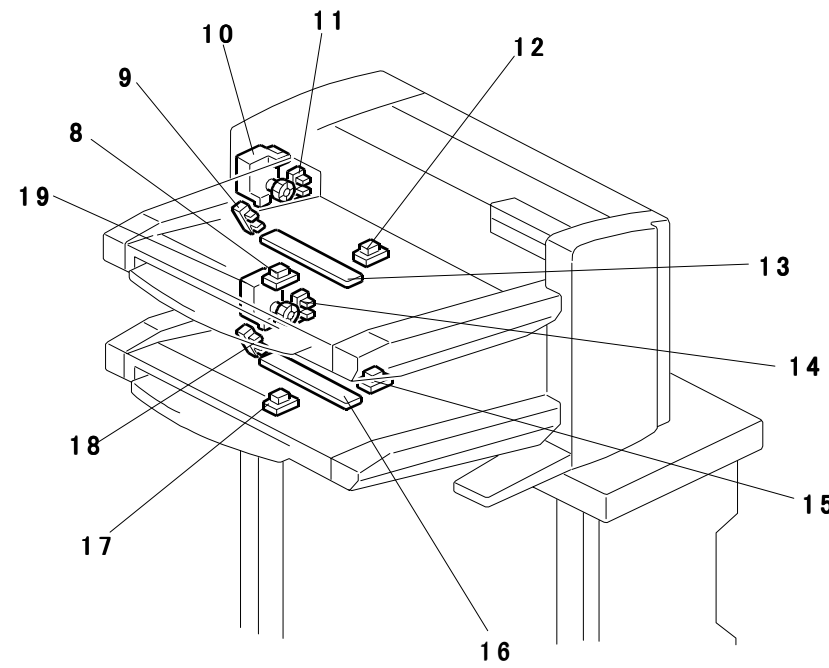
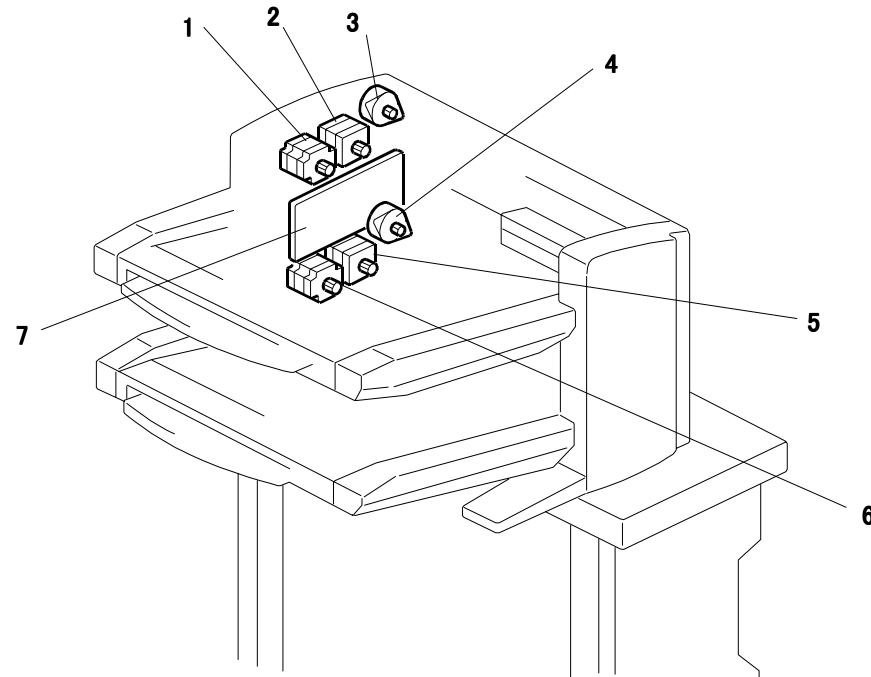


Symbol	Index No.	Description	P to P
<b>Motors</b>			
M1	5	Feed Motor	B9
M2	6	Lift Motor	F9
M3	2	Relay Motor	F3
M4	4	Transport Motor	C9
<b>PCBs</b>			
PCB1	7	Bypass Unit Control Board	F6
<b>Sensors</b>			
S1	13	Lift Sensor	D9
S2	14	Tray Lower Limit Sensor	D9
S3	10	Paper End Sensor	F10
S4	12	Paper Feed Sensor	D9
S5	16	Paper Height Sensor 1	E9
S6	15	Paper Height Sensor 2	E9
S7	8	Paper Length Sensor	E10
S8	1	Relay Sensor	F3
<b>Solenoids</b>			
SOL1	3	Pick-up Solenoid	E9
<b>Switches</b>			
SW1	11	Tray Lift Switch	D9
SW2	9	Paper Width Switches	G10



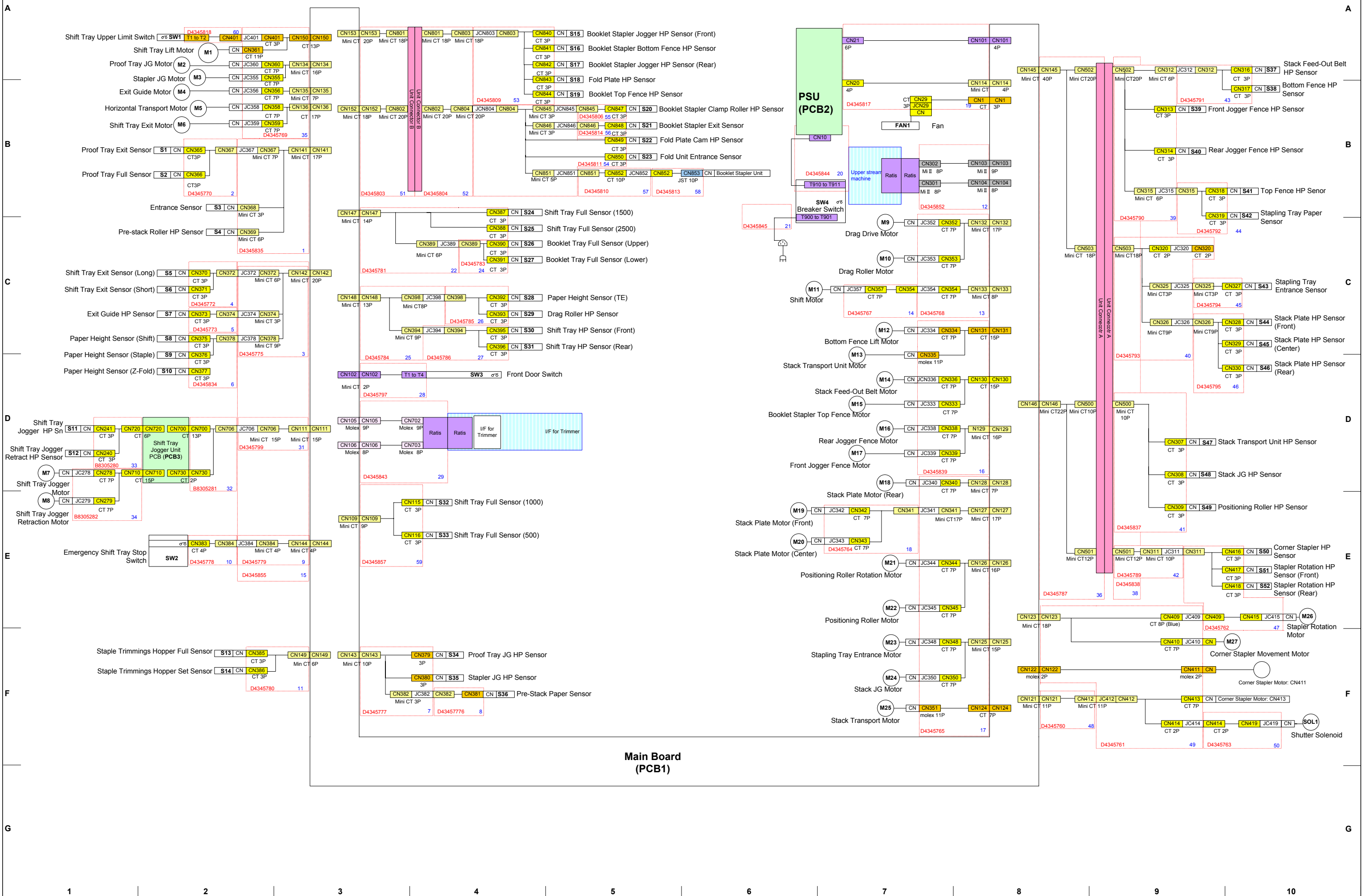
# B835 Point to Point Diagram

# B835 ELECTRICAL COMPONENT LAYOUT



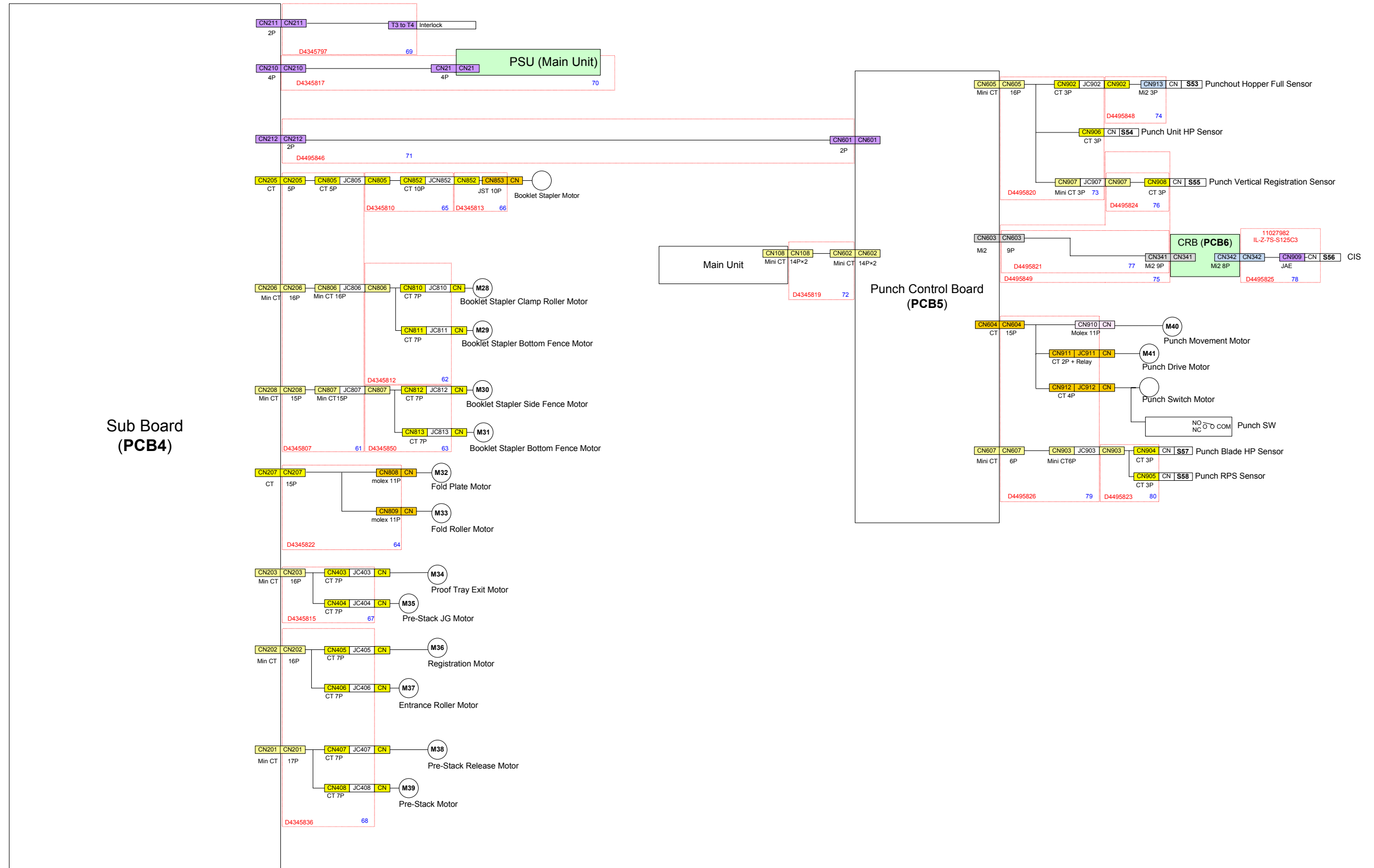
Symbol	Index No.	Description	P to P
<b>Motors</b>			
M1	10	1st Lift Motor	G9
M2	1	1st Paper Feed Motor	G10
M3	3	1st Pick-up Motor	G10
M4	2	1st Transport Motor	G9
M5	6	2nd Feed Motor	G6
M6	19	2nd Lift Motor	G5
M7	4	2nd Pick-up Motor	G6
M8	5	2nd Transport Motor	G6
M9	38	Horizontal Transport Motor	C4
M10	39	Vertical Transport Motor	C4
<b>PCBs</b>			
PCB1	7	Driver Board	E6
PCB2	37	Main Control Board	E5
<b>Sensors</b>			
S1	20	1st Tray Cover Sensor	G7
S2	11	1st Lower Limit Sensor	G7
S3	12	1st paper set sensor	G8
S4	24	1st Paper Feed Sensor	G8
S5	8	1st Paper Length Sensors	G8
S6	9	1st paper upper limit sensor	G7
S7	21	1st Pick-up Roller HP Sensor	G8
S8	23	1st Transport Sensor	G8
S9	26	1st Vertical Transport Sensor	G3
S10	22	1st bottom plate position sensor	G7
S11	14	2nd Lower Limit Sensor	G4
S12	31	2nd tray cover sensor	G3
S13	15	2nd paper set sensor	G5
S14	28	2nd Paper Feed Sensor	G4
S15	17	2nd Paper Length Sensor	G5
S16	18	2nd paper upper limit sensor	G4
S17	30	2nd Pick-up Roller HP Sensor	G4
S18	27	2nd Transport Sensor	G4
S19	29	2nd bottom plate position sensor	G4
S20	32	2nd Vertical Transport Sensor	D5
S21	33	Entrance Sensor	D5
S22	35	Exit Sensor	D6
S23	34	Vertical Exit Sensor	D5
<b>Switches</b>			
SW1	36	Front Door Switch	D4
SW2	25	Transport Cover Switch	G2
SW3	13	1st Paper Width Switch	G8
SW4	16	2nd Paper Width Switch	G5

# D434 POINT TO POINT DIAGRAM (1/2)





# D434 POINT TO POINT DIAGRAM (2/2)



# D434 ELECTRICAL COMPONENT LAYOUT (1/2)

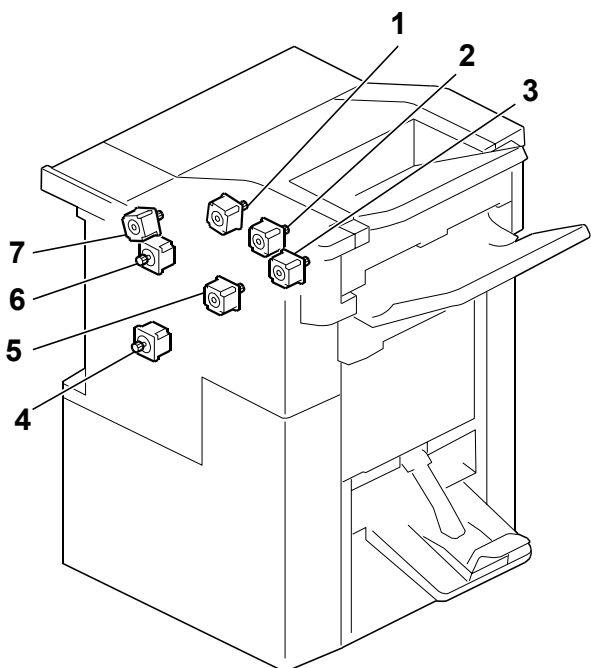


Fig.-1

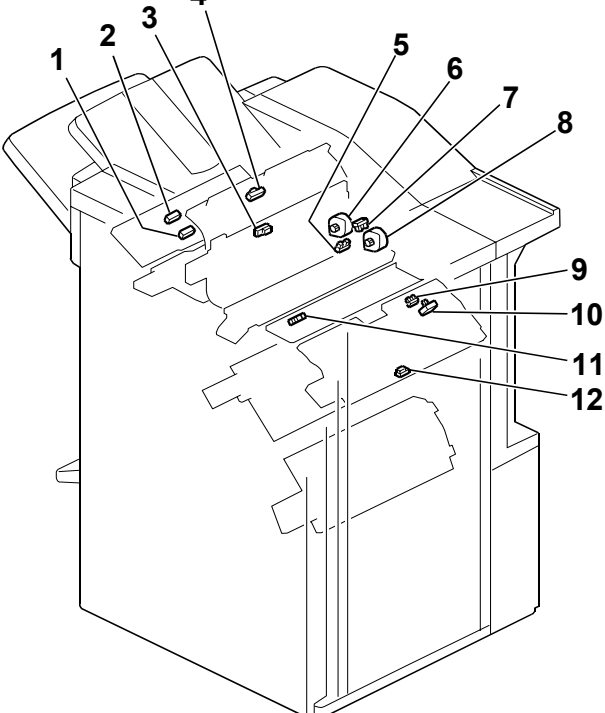


Fig.-2

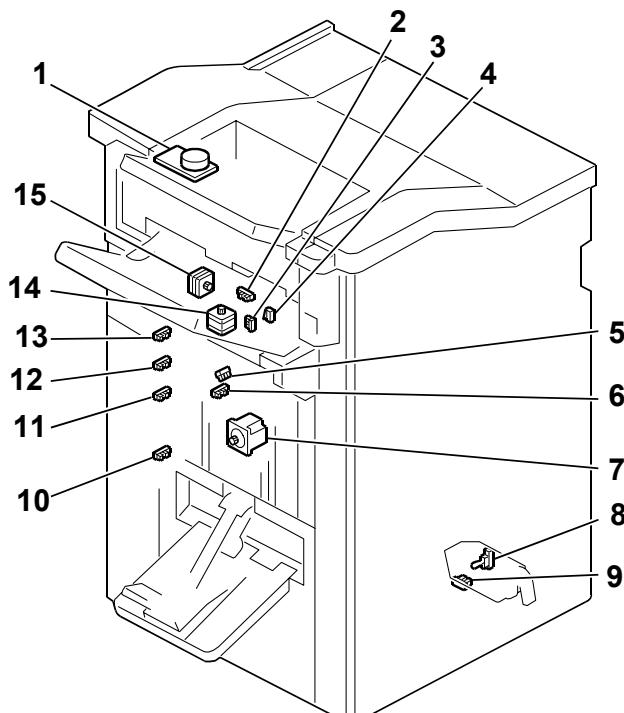


Fig.-3

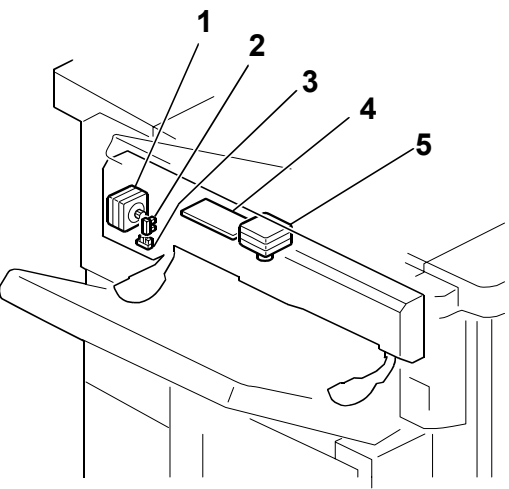


Fig.-4

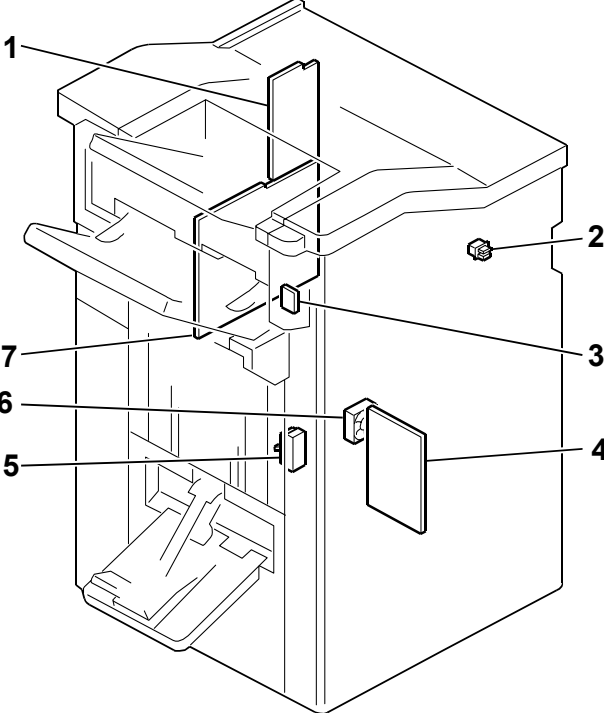


Fig.-5

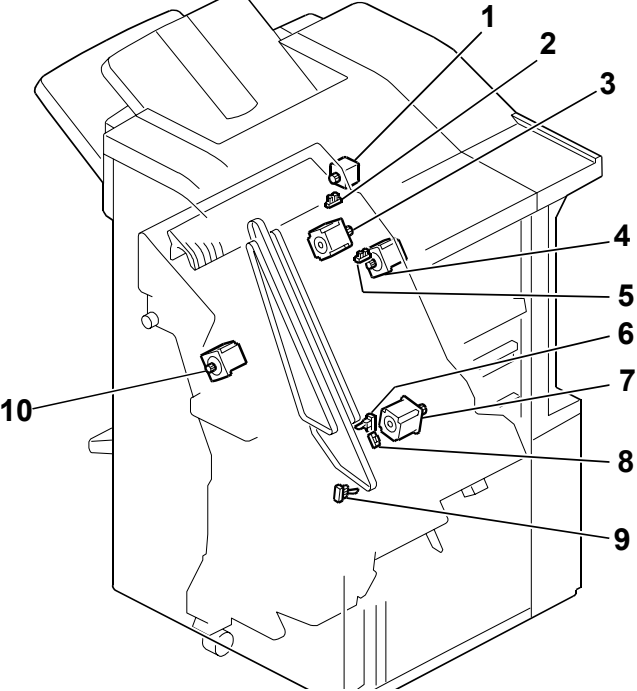


Fig.-6

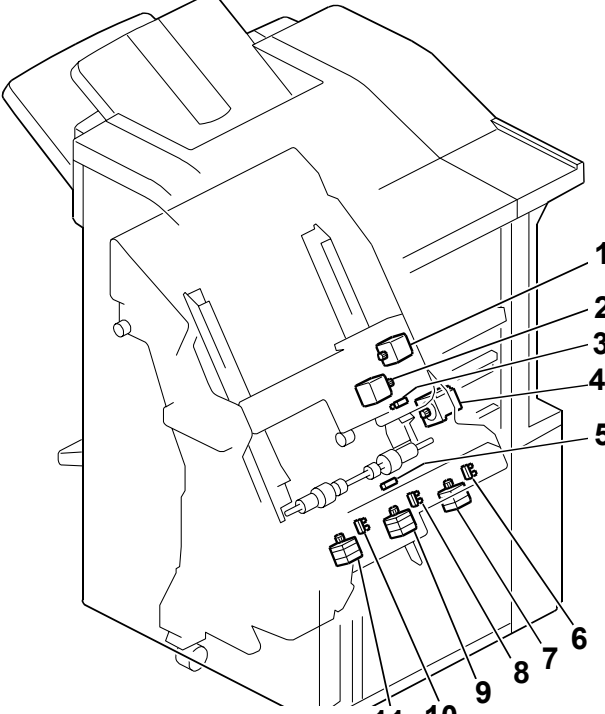


Fig.-7

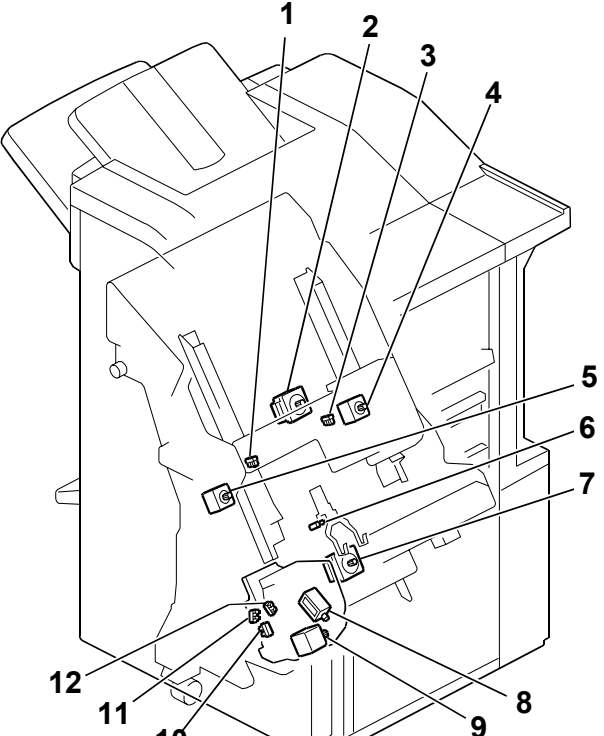


Fig.-8

# D434 ELECTRICAL COMPONENT LAYOUT (2/2)

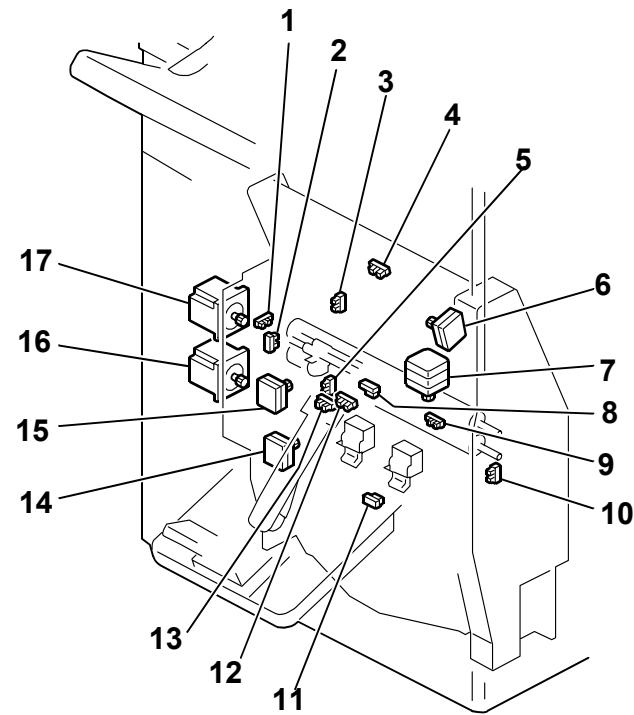


Fig.-9

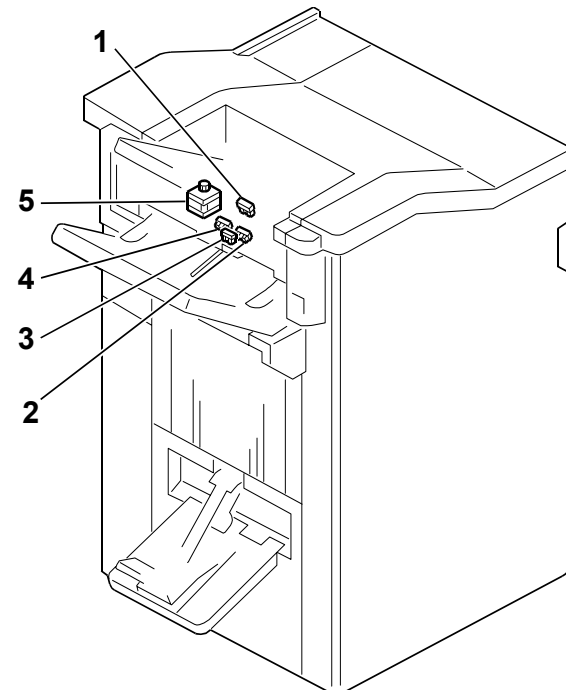


Fig.-10

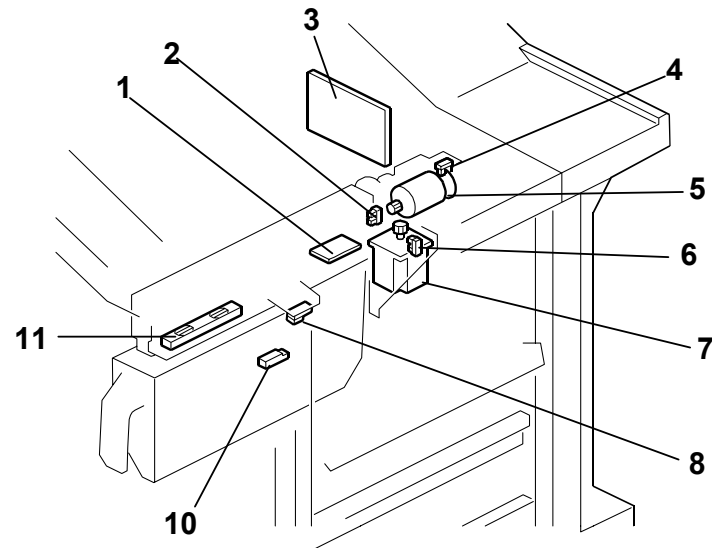


Fig.-11

Symbol	Index No.	Description	P to P	Page
<b>Motors</b>				
M1	F3-1	Shift Tray Lift Motor	A2	1/2
M2	F2-6	Proof Tray JG Motor	A2	1/2
M3	F2-8	Stapler JG Motor	A2	1/2
M4	F10-5	Exit Guide Motor	B2	1/2
M5	F1-5	Horizontal Transport Motor	B2	1/2
M6	F1-3	Shift Tray Exit Motor	B2	1/2
M7	F4-5	Shift Tray Jogger Motor	D1	1/2
M8	F4-1	Shift Tray Jogger Retraction Motor	E1	1/2
M9	F3-14	Drag Drive Motor	C7	1/2
M10	F3-15	Drag Roller Motor	C7	1/2
M11	F3-7	Shift Motor	C7	1/2
M12	F8-2	Bottom Fence Lift Motor	C7	1/2
M13	F6-4	Stack Transport Unit Motor	D7	1/2
M14	F6-10	Stack Feed-Out Belt Motor	D7	1/2
M15	F6-7	Booklet Stapler Top Fence Motor	D7	1/2
M16	F8-4	Rear Jogger Fence Motor	D7	1/2
M17	F8-5	Front Jogger Fence Motor	D7	1/2
M18	F7-7	Stack Plate Motor (Rear)	D7	1/2
M19	F7-11	Stack Plate Motor (Front)	E7	1/2
M20	F7-9	Stack Plate Motor (Center)	E7	1/2
M21	F7-2	Positioning Roller Rotation Motor	E7	1/2
M22	F7-1	Positioning Roller Motor	E7	1/2
M23	F7-4	Stapling Tray Entrance Motor	F7	1/2
M24	F6-1	Stack JG Motor	F7	1/2
M25	F6-3	Stack Transport Motor	F7	1/2
M26	F8-9	Stapler Rotation Motor	E10	1/2
M27	F8-7	Corner Stapler Movement Motor	F10	1/2
M28	F9-7	Booklet Stapler Clamp Roller Motor	C4	2/2
M29	F9-6	Booklet Stapler Bottom Fence Motor	C4	2/2
M30	F9-15	Booklet Stapler Side Fence Motor	D4	2/2
M31	F9-14	Booklet Stapler Bottom Fence Motor	D4	2/2
M32	F9-16	Fold Plate Motor	D4	2/2
M33	F9-17	Fold Roller Motor	D4	2/2
M34	F1-2	Proof Tray Exit Motor	E4	2/2
M35	F1-1	Pre-Stack JG Motor	E4	2/2
M36	F1-7	Registration Motor	E4	2/2
M37	F1-6	Entrance Roller Motor	E4	2/2
M38	F2-10	Pre-Stack Release Motor	G4	2/2
M39	F1-4	Pre-Stack Motor	G4	2/2
M40	F11-7	Punch Movement Motor	C9	2/2
M41	F11-5	Punch Drive Motor	C9	2/2
<b>PCBs</b>				
PCB1	F5-7	Main Board	G5	1/2
PCB2	F4-4	Shift Tray Jogger Unit PCB	D2	1/2
PCB3	F5-4	PSU	B6	1/2
PCB4	F5-1	Sub Board	D2	2/2
PCB5	F11-3	Punch Control Board	C7	2/2
PCB6	F11-1	CRB	C9	2/2
<b>Solenoid</b>				
SOL1	F8-8	Shutter Solenoid	F10	1/2
<b>Switches</b>				
SW1	F3-4	Shift Tray Upper Limit Switch	A2	1/2
SW2	F5-3	Emergency Shift Tray Stop Switch	E2	1/2
SW3	F5-2	Front Door Switch	D4	1/2
SW4	F5-5	Breaker Switch	B7	1/2
<b>Fan</b>				
FAN1	F5-6	FAN1	B7	1/2

Symbol	Index No.	Description	P to P	Page
<b>Sensors</b>				
S1	F2-3	Proof Tray Exit Sensor	B2	1/2
S2	F2-4	Proof Tray Full Sensor	B2	1/2
S3	F2-12	Entrance Sensor	B2	1/2
S4	F2-9	Pre-stack Roller HP Sensor	C2	1/2
S5	F2-2	Shift Tray Exit Sensor (Long)	C2	1/2
S6	F2-1	Shift Tray Exit Sensor (Short)	C2	1/2
S7	F10-1	Exit Guide HP Sensor	C2	1/2
S8	F10-2	Paper Height Sensor (Shift)	C2	1/2
S9	F10-3	Paper Height Sensor (Staple)	D2	1/2
S10	F10-4	Paper Height Sensor (Z-Fold)	D2	1/2
S11	F4-2	Shift Tray Jogger HP Sensor	D2	1/2
S12	F4-3	Shift Jogger Fence Retract HP Sensor	D2	1/2
S13	F3-9	Staple Trimmings Hopper Full Sensor	F2	1/2
S14	F3-8	Staple Trimmings Hopper Set Sensor	F2	1/2
S15	F9-10	Booklet Stapler Jogger HP Sensor	A5	1/2
S16	F9-11	Booklet Stapler Bottom Fence HP	A5	1/2
S17	F9-5	Booklet Stapler Jogger HP Sensor	A5	1/2
S18	F9-3	Fold Plate HP Sensor	A5	1/2
S19	F9-4	Booklet Top Fence HP Sensor	B5	1/2
S20	F9-2	Booklet Stapler Clamp Roller HP Sensor	B5	1/2
S21	F9-8	Booklet Stapler Exit Sensor	B5	1/2
S22	F9-1	Fold Plate Cam HP Sensor	B5	1/2
S23	F9-9	Fold Unit Entrance Sensor	B5	1/2
S24	F3-11	Shift Tray Full Sensor (1500)	B5	1/2
S25	F3-10	Shift Tray Full Sensor (2500)	B5	1/2
S26	F9-12	Booklet Tray Full Sensor (Upper)	C4	1/2
S27	F9-13	Booklet Tray Full Sensor (Lower)	C4	1/2
S28	F3-2	Paper Height Sensor (TE)	C4	1/2
S29	F3-3	Drag Roller HP Sensor	C4	1/2
S30	F3-6	Shift Tray HP Sensor (Front)	C4	1/2
S31	F3-5	Shift Tray HP Sensor (Rear)	C4	1/2
S32	F3-12	Shift Tray Full Sensor (1000)	E4	1/2
S33	F3-13	Shift Tray Full Sensor (500)	E4	1/2
S34	F2-7	Proof Tray JG HP Sensor	F4	1/2
S35	F2-5	Stapler JG HP Sensor	F4	1/2
S36	F2-11	Pre-Stack Paper Sensor	F4	1/2
S37	F6-9	Stack Feed-Out Belt HP Sensor	A10	1/2
S38	F8-6	Bottom Fence HP Sensor	B10	1/2
S39	F8-1	Front Jogger Fence HP Sensor	B9	1/2
S40	F8-3	Rear Jogger Fence HP Sensor	B9	1/2
S41	F6-6	Top Fence HP Sensor	B10	1/2
S42	F6-8	Stapling Tray Paper Sensor	B10	1/2
S43	F7-5	Stapling Tray Entrance Sensor	C10	1/2
S44	F7-10	Stack Plate HP Sensor (Front)	C10	1/2
S45	F7-8	Stack Plate HP Sensor (Center)	C10	1/2
S46	F7-6	Stack Plate HP Sensor (Rear)	D10	1/2
S47	F6-5	Stack Transport Unit HP Sensor	D9	1/2
S48	F6-2	Stack JG HP Sensor	D9	1/2
S49	F7-3	Positioning Roller HP Sensor	E9	1/2
S50	F8-10	Corner Stapler HP Sensor	E10	1/2
S51	F8-11	Stapler Rotation HP Sensor (Front)	E10	1/2
S52	F8-12	Stapler Rotation HP Sensor (Rear)	E10	1/2
S53	F11-11	Punchout Hopper Full Sensor	B9	2/2
S54	F11-6	Punch Unit HP Sensor	B8	2/2
S55	F11-8	Punch Vertical Registration Sensor	B9	2/2
S56	F11-11	CIS	C10	2/2
S57	F11-2	Punch Blade HP Sensor	D9	2/2
S58	F11-4	Punch RPS Sensor	D9	2/2

# D447 POINT TO POINT DIAGRAM

A

B

C

D

E

F

A

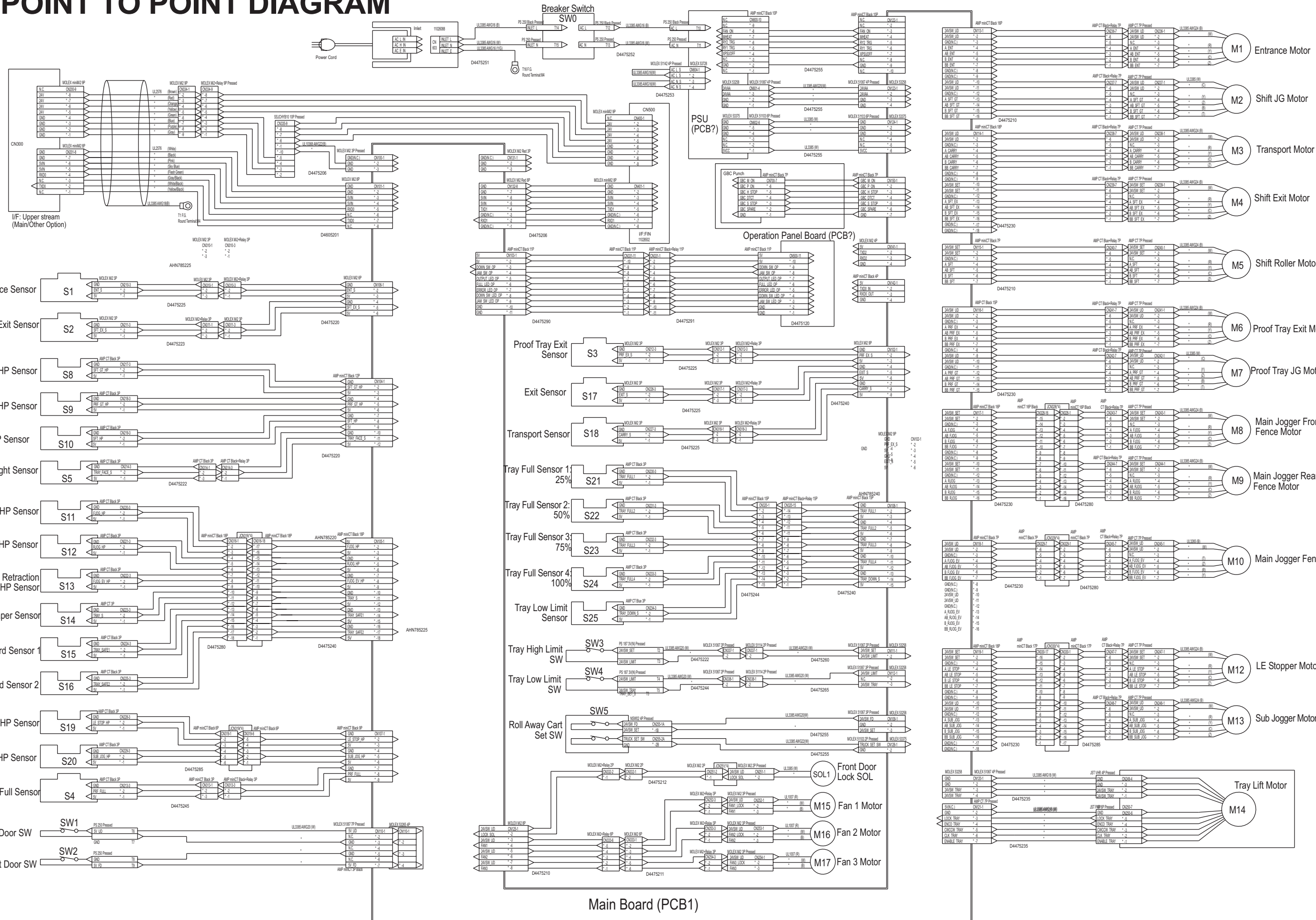
B

C

D

E

F



# D447 ELECTRICAL COMPONENT LAYOUT

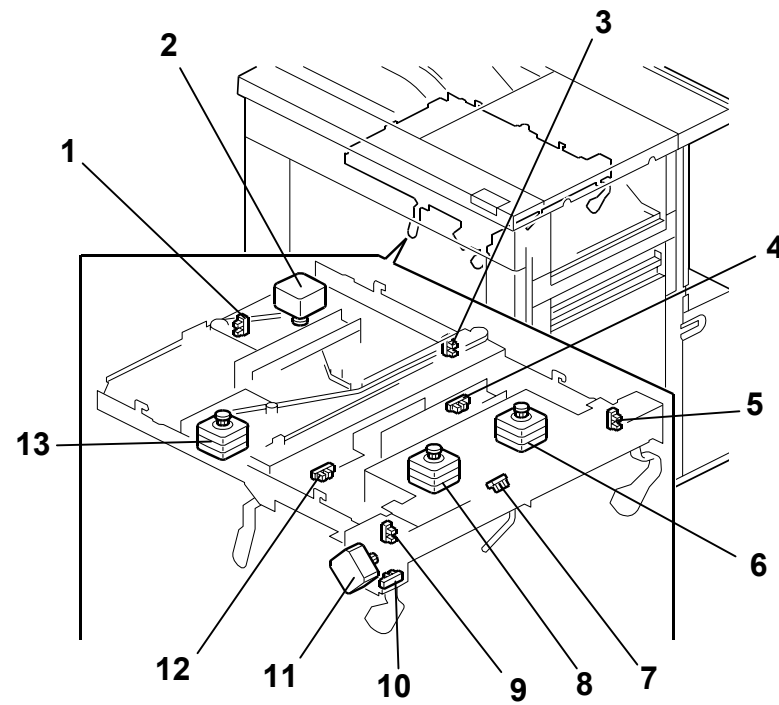


Fig.-1

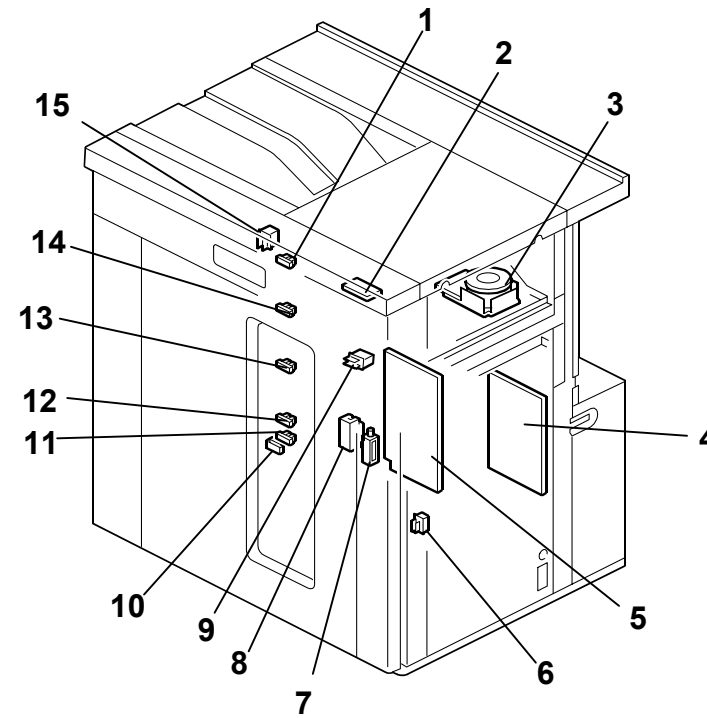


Fig.-2

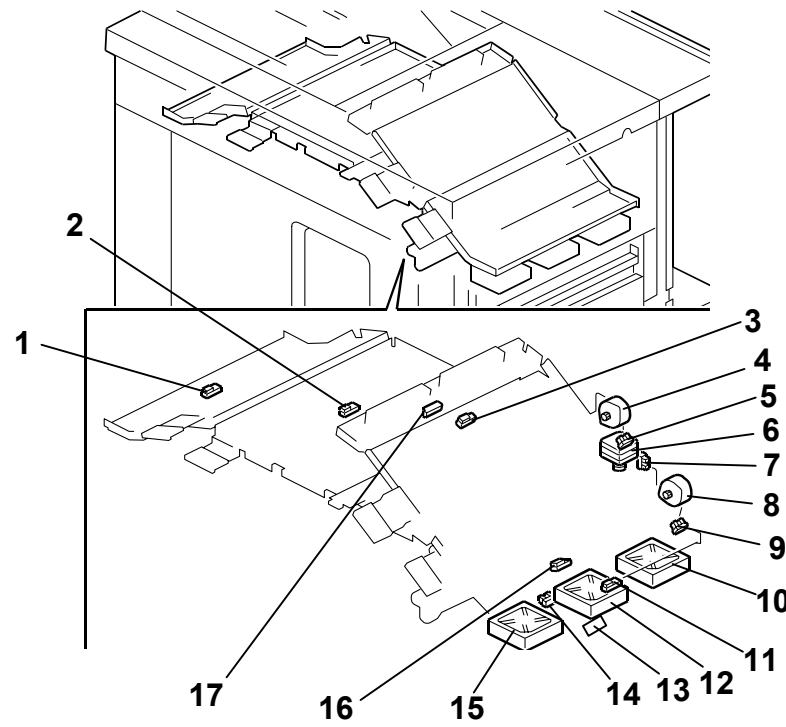


Fig.-3

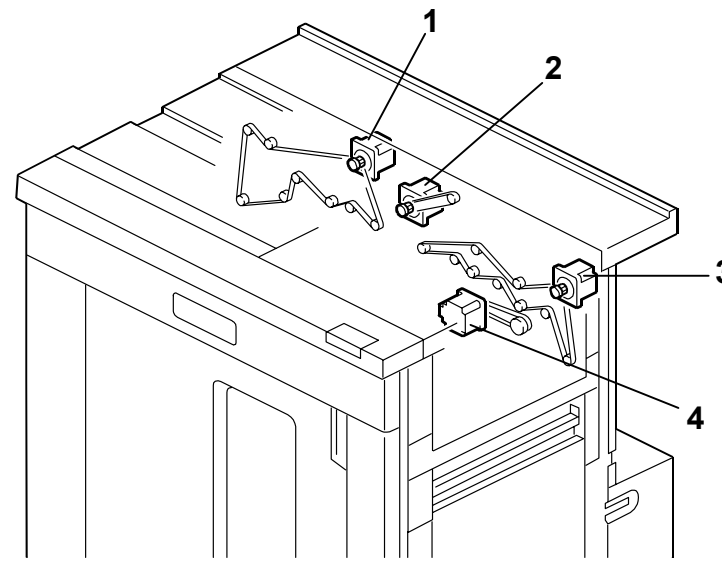


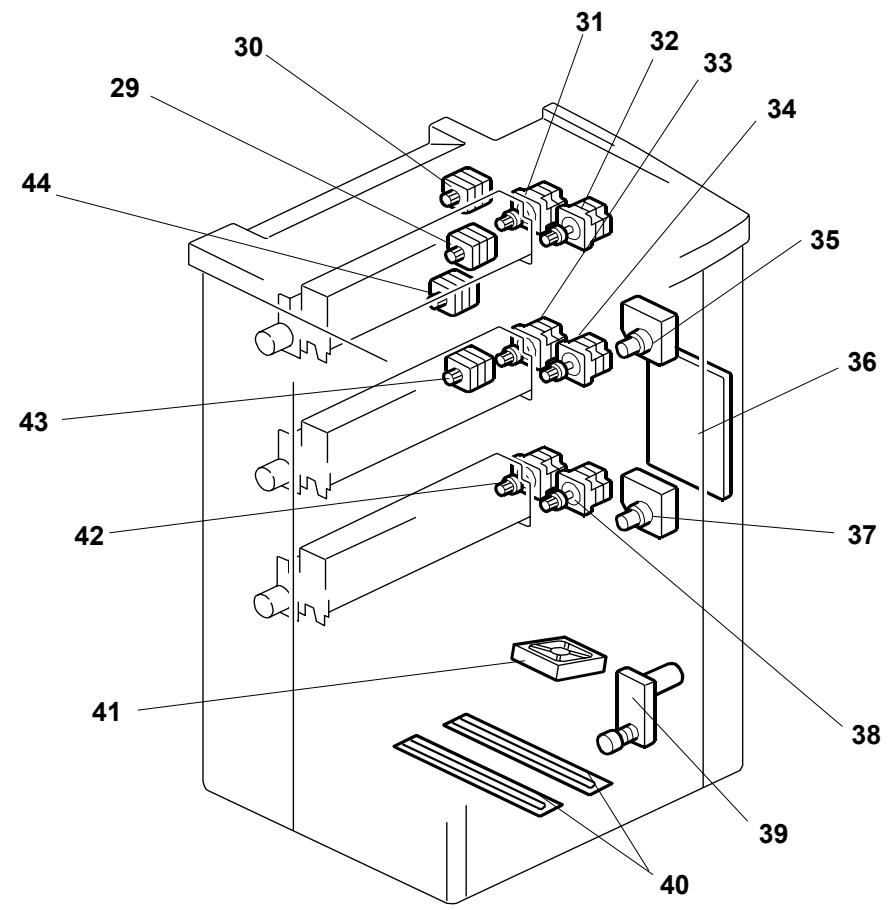
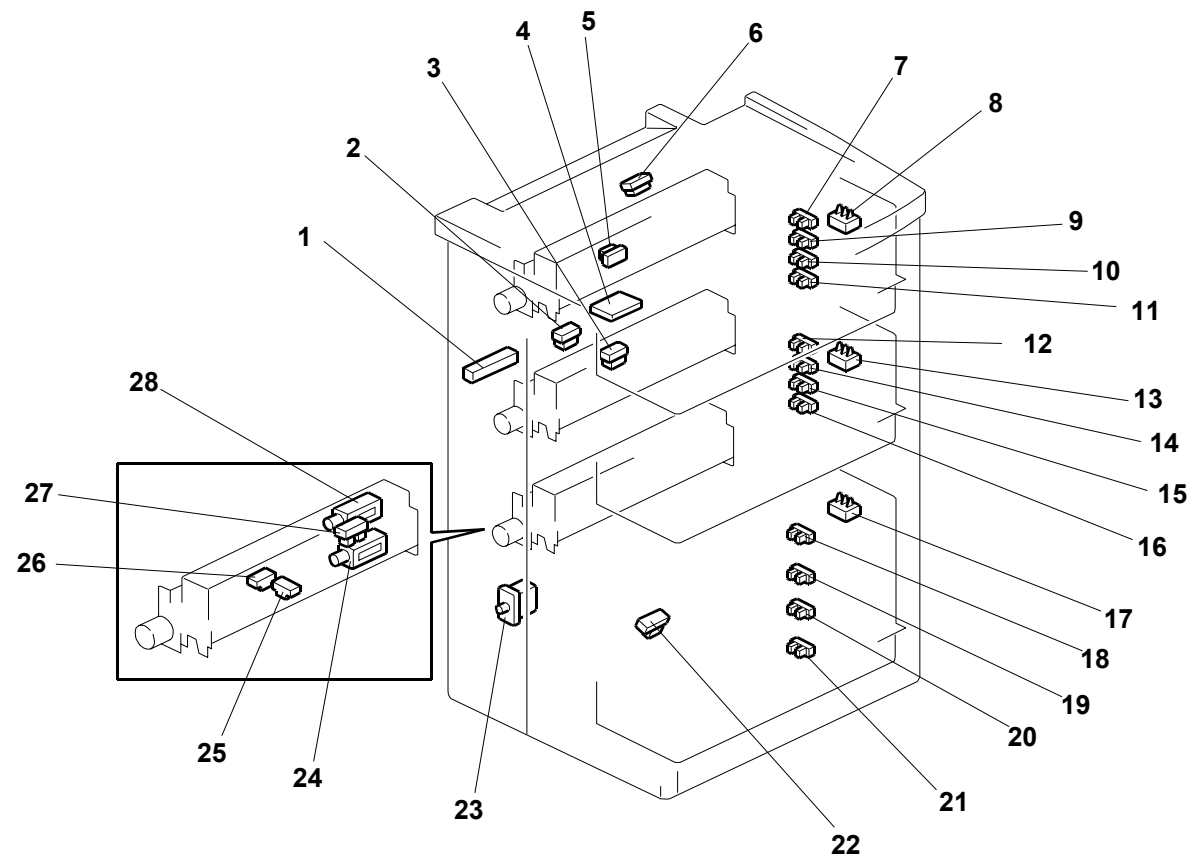
Fig.-4

Symbol	Index No.	Description	P to P
<b>Motors</b>			
M1	F4-3	Entrance Motor	A9
M2	F3-8	Shift JG Motor	A9
M3	F4-1	Transport Motor	A9
M4	F4-4	Shift Exit Motor	B9
M5	F3-6	Shift Roller Motor	B9
M6	F4-2	Proof Tray Exit Motor	C9
M7	F3-4	Proof Tray JG Motor	C9
M8	F1-8	Main Jogger Front Fence Motor	C9
M9	F1-6	Main Jogger Rear Fence Motor	C9
M10	F1-11	Main Jogger Fence Retraction Motor	D9
M12	F1-2	LE Stopper Motor	E9
M13	F1-13	Sub Jogger Motor	E9
M14	F2-3	Tray Lift Motor	E9
M15	F3-15	Fan 1 Motor	E6
M16	F3-12	Fan 2 Motor	E6
M17	F3-10	Fan 3 Motor	F6
<b>PCBs</b>			
PCB1	F2-4	Main Board	F5
PCB2	F2-5	PSU	A5
PCB3	F2-2	Operation Panel PCB	B6
<b>Solenoids</b>			
SOL1	F2-7	Front Door Lock SOL	E6
<b>Switches</b>			
SW0	F2-8	Breaker Switch	A5
SW1	F2-15	Top Door SW	E2
SW2	F2-9	Front Door SW	F2
SW3	F3-13	Tray High Limit SW	E5
SW4	F2-10	Tray Low Limit SW	E5
SW5	F2-6	Roll Away Cart Set SW	E5
<b>Sensors</b>			
S1	F3-11	Entrance Sensor	B2
S2	F3-16	Shift Tray Exit Sensor	C2
S3	F3-3	Proof Tray Exit Sensor	C5
S4	F3-17	Proof Tray Full Sensor	E2
S5	F3-14	Paper Height Sensor	C2
S8	F3-9	Shift Tray JG HP Sensor	C2
S9	F3-5	Proof Tray JG HP Sensor	C2
S10	F3-7	Shift Roller HP Sensor	C2
S11	F1-9	Front Fence HP Sensor	D2
S12	F1-5	Rear Fence HP Sensor	D2
S13	F1-10	Jogger Fence Retraction HP Sensor	D2
S14	F1-7	Shift Tray Paper Sensor	D2
S15	F1-12	Tray Guard Sensor 1	D2
S16	F1-4	Tray Guard Sensor 2	E2
S17	F3-1	Exit Sensor	C5
S18	F3-2	Transport Sensor	C5
S19	F1-1	LE Stopper HP Sensor	E2
S20	F1-3	Sub Jogger HP Sensor	E2
S21	F2-1	Tray Full Sensor 1: 25%	C5
S22	F2-14	Tray Full Sensor 2: 50%	D5
S23	F2-13	Tray Full Sensor 3: 75%	D5
S24	F2-12	Tray Full Sensor 4: 100%	D5
S25	F2-11	Tray Low Limit Sensor	D5





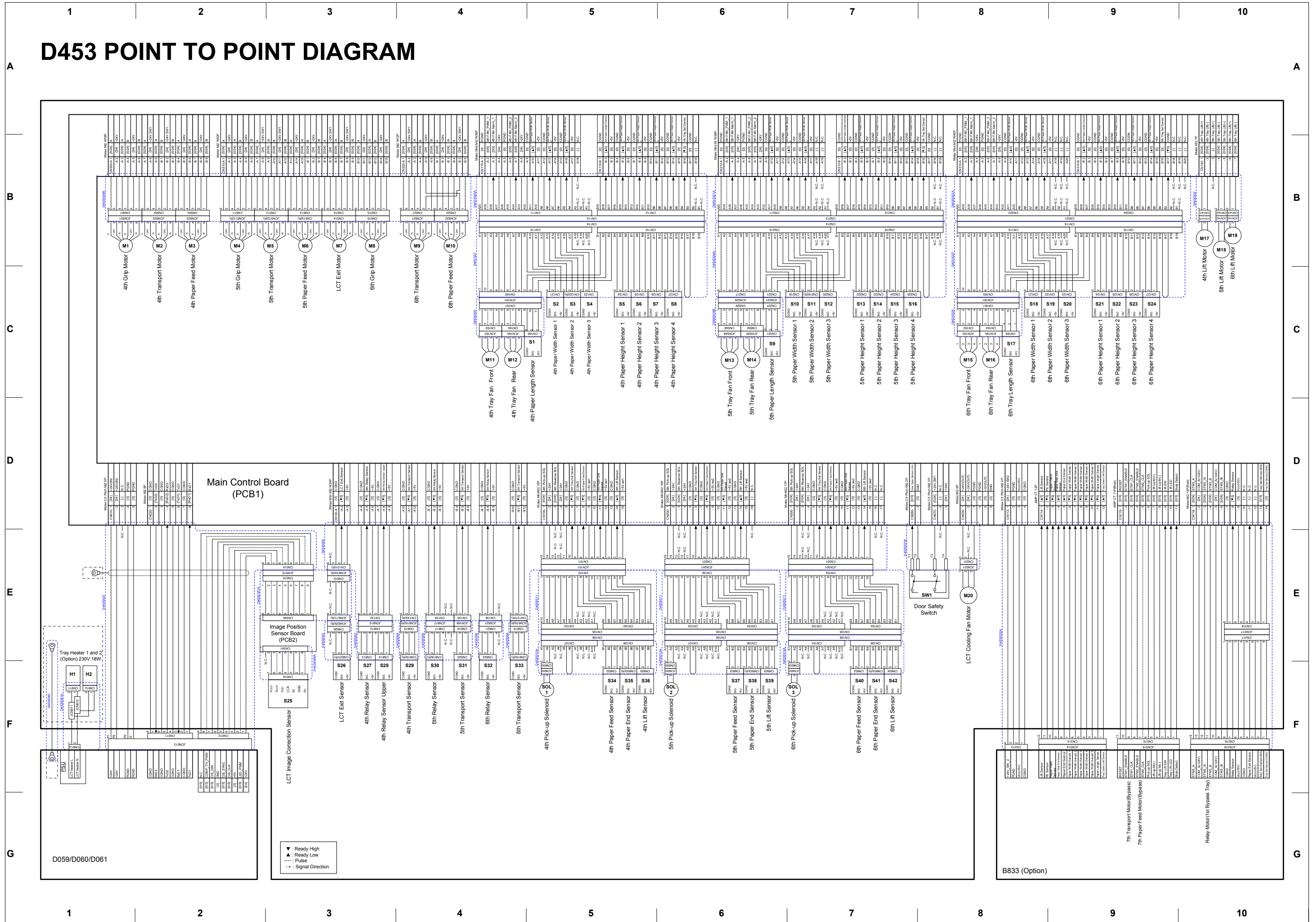
# D452 ELECTRICAL COMPONENT LAYOUT



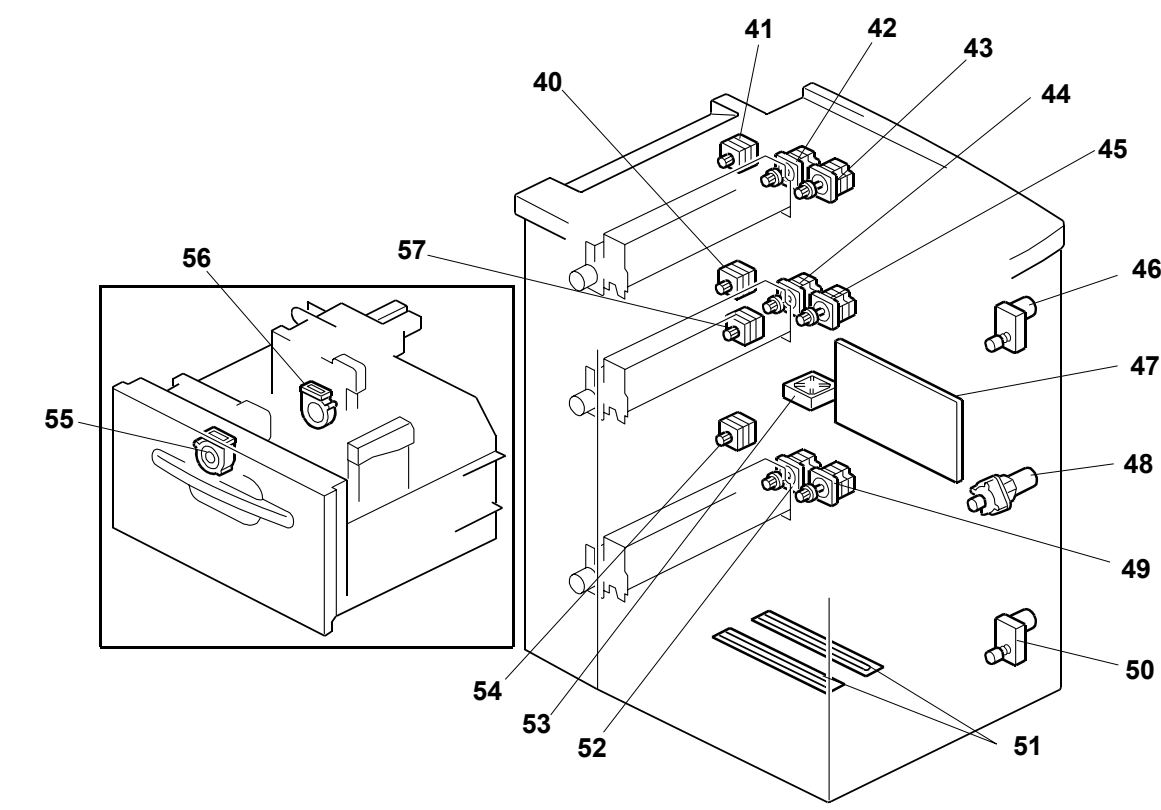
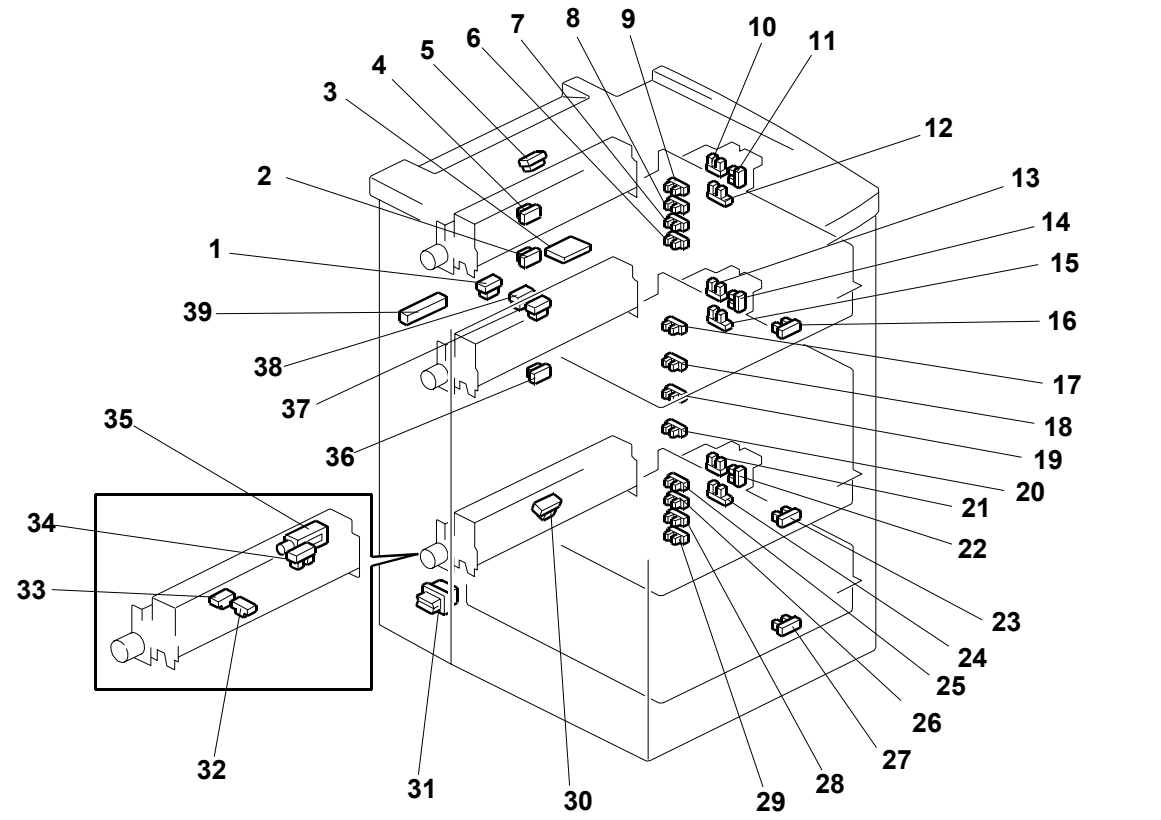
Symbol	Index No.	Description	P to P
<b>Motors</b>			
M1	31	4th Grip Motor	C2
M2	30	4th Transport Motor	C2
M3	32	4th Paper Feed Motor	C2
M4	33	5th Grip Motor	C2
M5	29	5th Transport Motor	C3
M6	34	5th Paper Feed Motor	C3
M7	44	LCT Exit Motor	C3
M8	42	6th Grip Motor	C3
M9	43	6th Transport Motor	C4
M10	38	6th Paper Feed Motor	C4
M11	35	4th Lift Motor	C10
M12	37	5th Lift Motor	C10
M13	39	6th Lift Motor	C10
M14	41	LCT Cooling Fan Motor	E8
<b>PCBs</b>			
PCB1	36	Main Control Board	D2-3
PCB2	4	Image Position Sensor	E3
<b>Sensors</b>			
S1	8	4th Paper Width Sensor	B5
S2	11	4th Paper Height Sensor 1	B5
S3	10	4th Paper Height Sensor 2	B5
S4	9	4th Paper Height Sensor 3	B6
S5	7	4th Paper Height Sensor 4	B6
S6	13	5th Paper Width Sensor	B6
S7	16	5th Paper Height Sensor 1	B7
S8	15	5th Paper Height Sensor 2	B7
S9	14	5th Paper Height Sensor 3	B7
S10	12	5th Paper Height Sensor 4	B7
S11	17	6th Paper Width Sensor	B8
S12	21	6th Paper Height Sensor 1	B9
S13	20	6th Paper Height Sensor 2	B9
S14	19	6th Paper Height Sensor 3	B9
S15	18	6th Paper Height Sensor 4	B9
S16	1	LCT Image Position Sensor	E3
S17	2	LCT Exit Sensor	E3
S18	5	4th Relay Sensor	E4
S19	3	5th Transport Sensor	E4
S20	6	4th Transport Sensor	E4
S21	22	6th Transport Sensor	E4
S22	26	4th Paper Feed Sensor	E5
S23	25	4th Paper End Sensor	E5
S24	27	4th Lift Sensor	E5
S25	26	5th Paper Feed Sensor	E6
S26	25	5th Paper End Sensor	E6
S27	27	5th Lift Sensor	E6
S28	26	6th Paper Feed Sensor	E7
S29	25	6th Paper End Sensor	E7
S30	27	6th Lift Sensor	E7

Symbol	Index No.	Description	P to P
<b>Solenoids</b>			
SOL1	28	4th Pick-up Solenoid	E4
SOL2	24	4th Separation Solenoid	E5
SOL3	28	5th Pick-up Solenoid	E5
SOL4	24	5th Separation SOL	E5
SOL5	28	6th Pick-up Solenoid	E6
SOL6	24	6th Separation Solenoid	E6
<b>Switches</b>			
SW1	23	Door Safety Switch	E7
<b>Other</b>			
H1, H2	40	Tray Heaters	E1

# D453 POINT TO POINT DIAGRAM



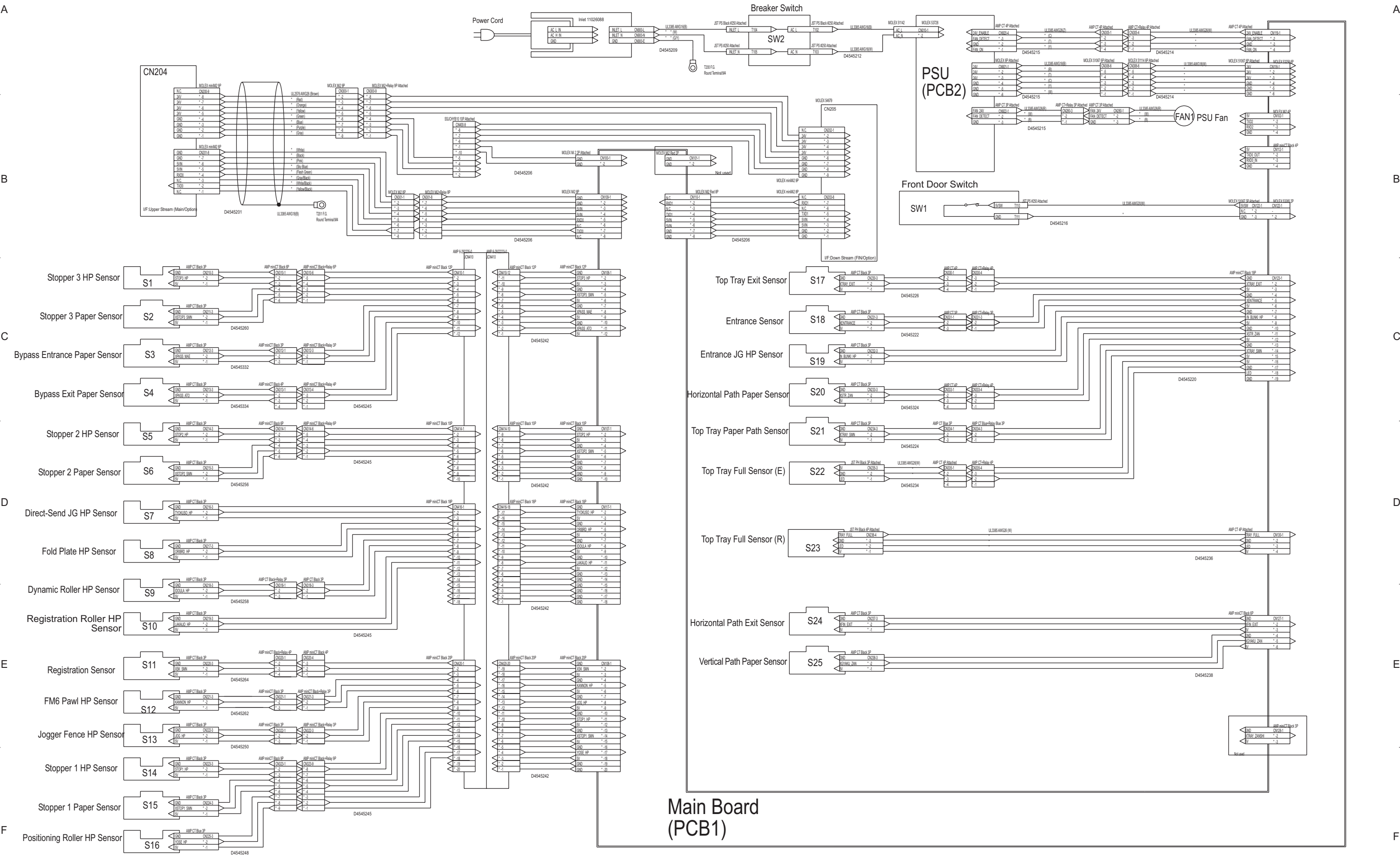
# D453 ELECTRICAL COMPONENT LAYOUT



Symbol	Index No.	Description	P to P
<b>Motors</b>			
M1	42	4th Grip Motor	B1
M2	41	4th Transport Motor	B2
M3	43	4th Paper Feed Motor	B2
M4	44	5th Grip Motor	B2
M5	40	5th Transport Motor	B3
M6	47	5th Paper Feed Motor	B3
M7	57	LCT Exit Motor	B3
M8	52	6th Grip Motor	B3
M9	54	6th Transport Motor	B4
M10	49	6th Paper Feed Motor	B4
M11	55	4th Tray Fan: Front	C4
M12	56	4th Tray Fan: Rear	C4
M13	55	5th Tray Fan: Front	C6
M14	56	5h Tray Fan: Rear	C6
M15	55	6th Tray Fan: Front	C8
M16	56	6th Tray Fan: Rear	C8
M17	46	4th Lift Motor	B10
M18	48	5th Lift Motor	B10
M19	50	6th Lift Motor	B10
M20	53	LCT Cooling Fan Motor	E8
<b>PCBs</b>			
PCB1	47	Main Control Board	D2-3
PCB2	3	Image Position Sensor Board	E3
<b>Sensors</b>			
S1	16	4th Paper Length Sensor	C4
S2	12	4th Paper Width Sensor 1	C5
S3	11	4th Paper Width Sensor 2	C5
S4	10	4th Paper Width Sensor 3	C5
S5	9	4th Paper Height Sensor 1	C5
S6	8	4th Paper Height Sensor 2	C5
S7	7	4th Paper Height Sensor 3	C5
S8	6	4th Paper Height Sensor 4	C6
S9	23	5th Paper Length Sensor	C6
S10	15	5th Paper Width Sensor 1	C7
S11	14	5th Paper Width Sensor 2	C7
S12	13	5th Paper Width Sensor 3	C7
S13	20	5th Paper Height Sensor 1	C7
S14	19	5th Paper Height Sensor 2	C7
S15	18	5th Paper Height Sensor 3	C7
S16	17	5th Paper Height Sensor 4	C7
S17	27	6th Paper Length Sensor	C8
S18	24	6th Paper Width Sensor 1	C8
S19	22	6th Paper Width Sensor 2	C8
S20	21	6th Paper Width Sensor 3	C9
S21	29	6th Paper Height Sensor 1	C9
S22	28	6th Paper Height Sensor 2	C9
S23	26	6th Paper Height Sensor 3	C9
S24	25	6th Paper Height Sensor 4	C9
S25	39	LCT Image Position Sensor	F3

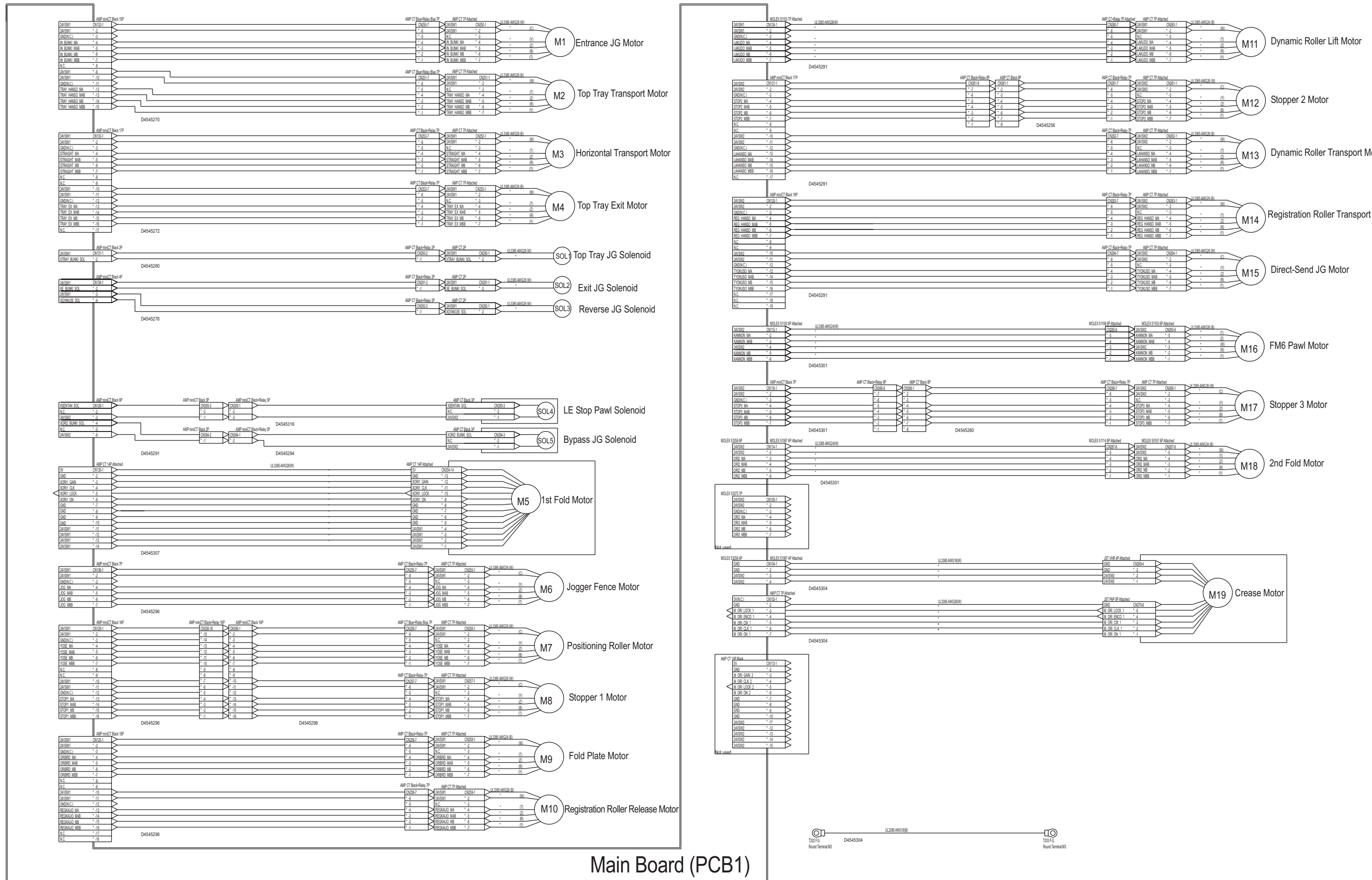
Symbol	Index No.	Description	P to P
S26	1	LCT Exit Sensor	F3
S27	2	4th Relay Sensor	F3
S28	4	4th Relay Sensor - Upper	F3
S29	5	4th Transport Sensor	F4
S30	38	5th Relay Sensor	F4
S31	37	5th Transport Sensor	F4
S32	36	6th Relay Sensor	F4
S33	30	6th Transport Sensor	F4
S34	33	4th Paper Feed Sensor	F5
S35	32	4th Paper End Sensor	F5
S36	34	4th Lift Sensor	F5
S37	33	5th Paper Feed Sensor	F6
S38	32	5th Paper End Sensor	F6
S39	34	5th Lift Sensor	F6
S40	33	6th Paper Feed Sensor	F7
S41	32	6th Paper End Sensor	F7
S42	34	6th Lift Sensor	F7
<b>Solenoids</b>			
SOL1	35	4th Pick-up Solenoid	F5
SOL2	35	5th Pick-up Solenoid	F6
SOL3	35	6th Pick-up Solenoid	F7
<b>Switch</b>			
SW1	31	Door Safety Switch	E8
<b>Others</b>			
H1, H2	51	Anti-Condensation Heaters	F1

# D454 POINT TO POINT DIAGRAM (1/2)





# D454 POINT TO POINT DIAGRAM (2/2)



Main Board (PCB1)

# D454 ELECTRICAL COMPONENT LAYOUT

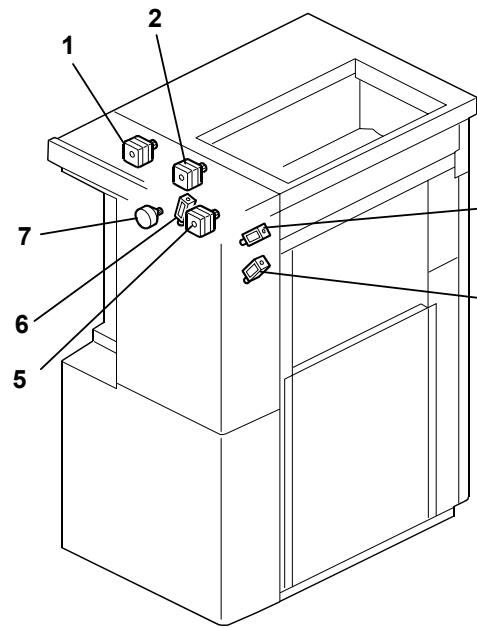


Fig.-1

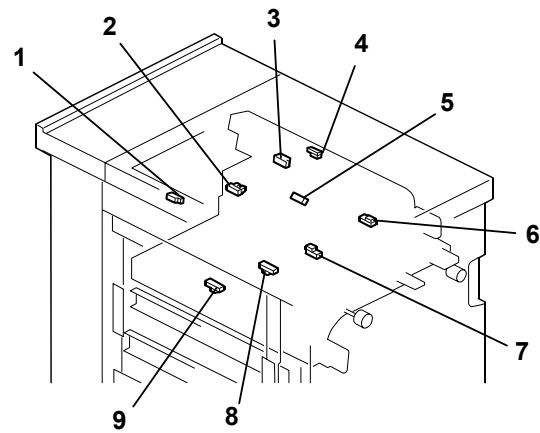


Fig.-2

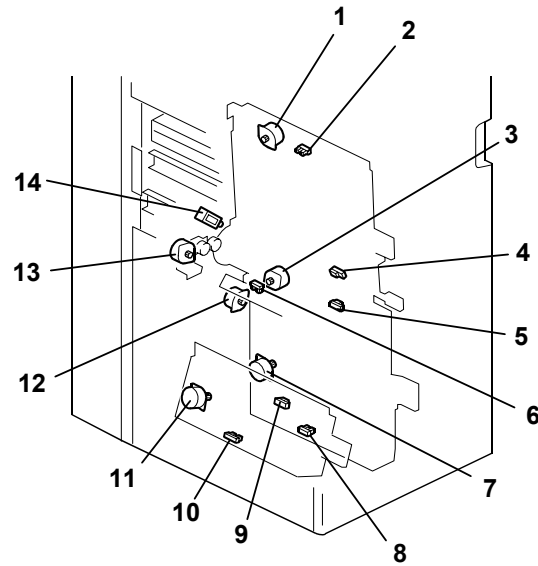


Fig.-3

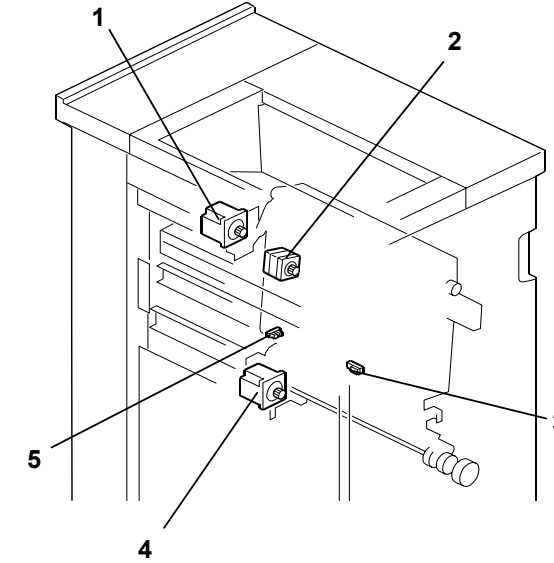


Fig.-4

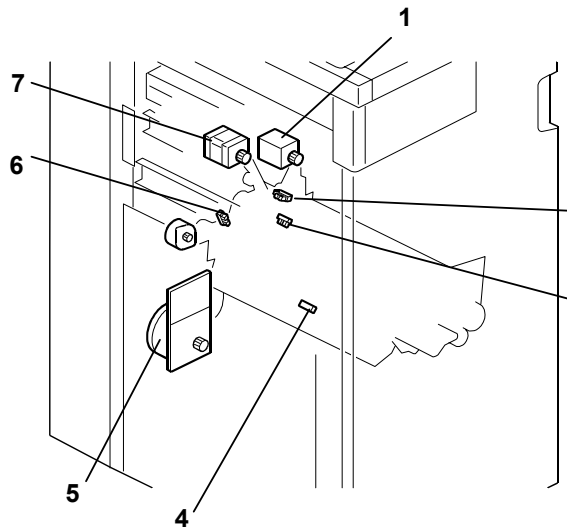


Fig.-5

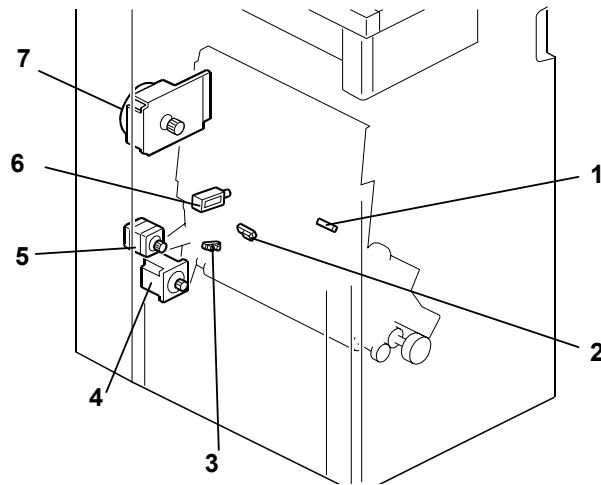


Fig.-6

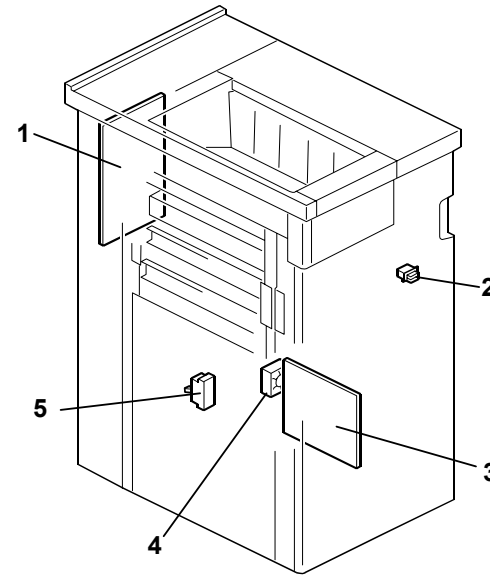
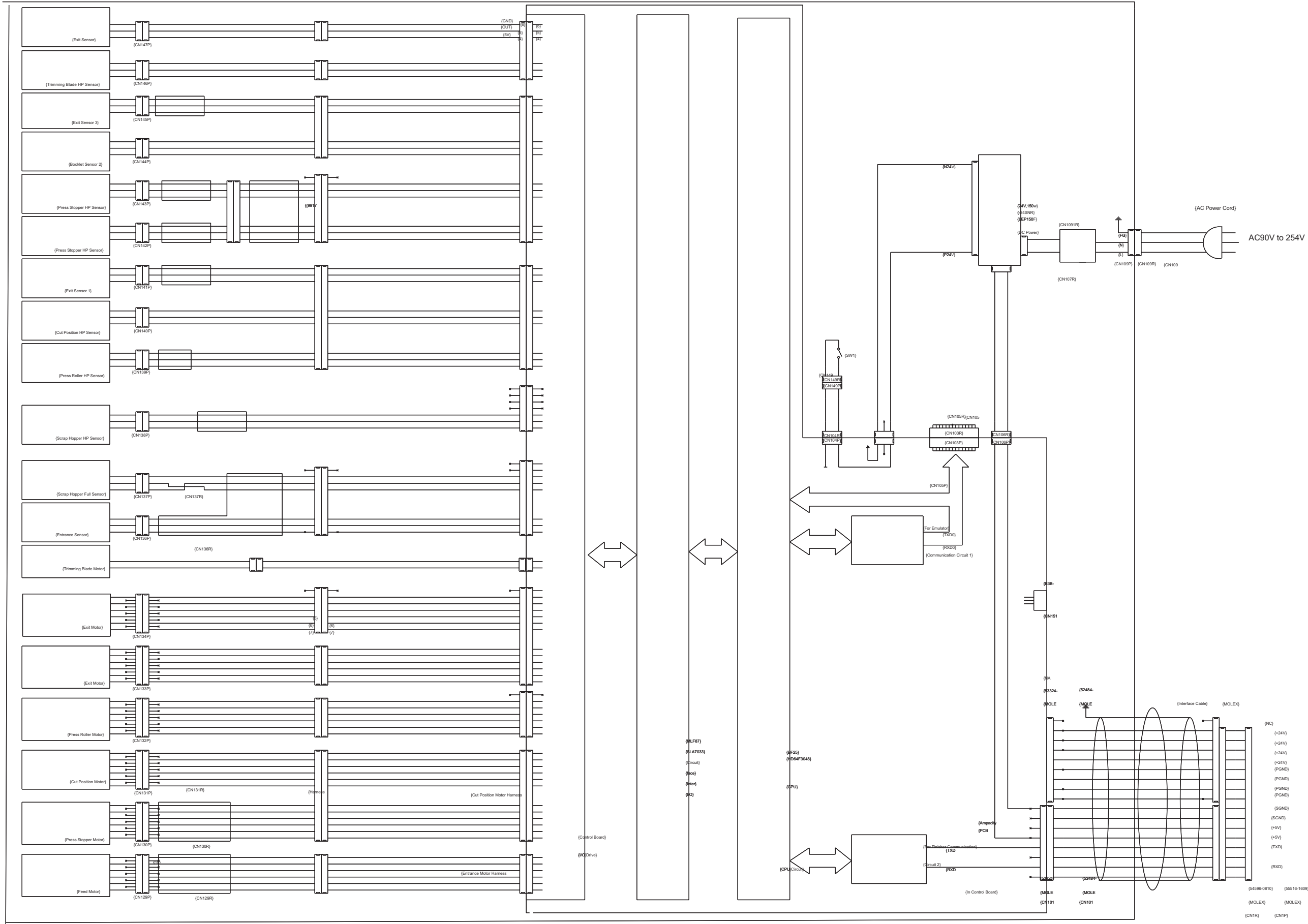


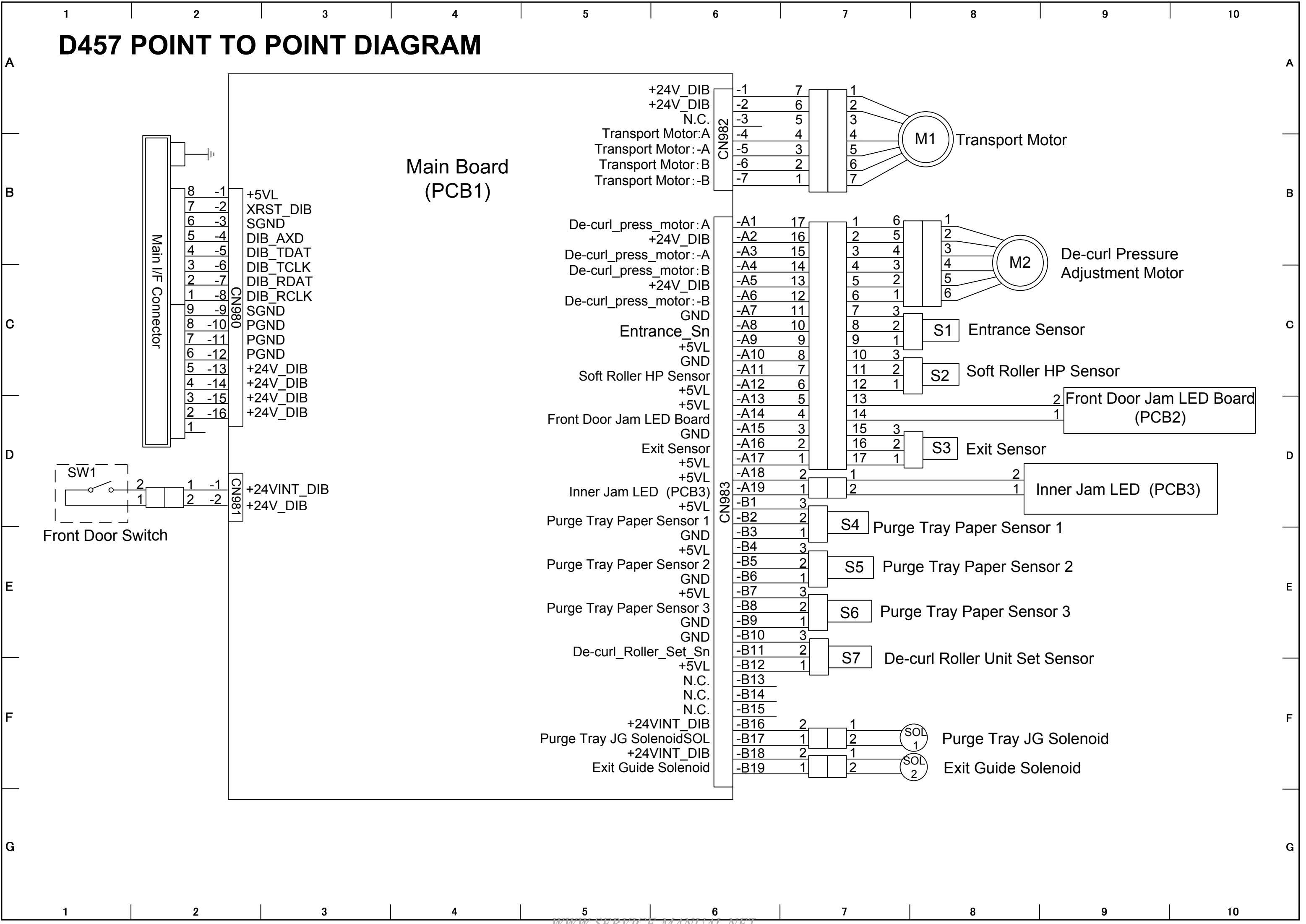
Fig.-7

Symbol	Index No.	Description	P to P	Page
<b>Motors</b>				
M1	F1-7	Entrance JG Motor	A4	2/2
M2	F1-5	Top Tray Transport Motor	B4	2/2
M3	F1-1	Horizontal Transport Motor	B4	2/2
M4	F1-2	Top Tray Exit Motor	B4	2/2
M5	F5-5	1st Fold Motor	D4	2/2
M6	F3-3	Jogger Fence Motor	D4	2/2
M7	F3-12	Positioning Roller Motor	E4	2/2
M8	F3-7	Stopper 1 Motor	E4	2/2
M9	F4-4	Fold Plate Motor	E4	2/2
M10	F5-1	Registration Roller Release Motor	F4	2/2
M11	F4-1	Dynamic Roller Lift Motor	A8	2/2
M12	F3-1	Stopper 2 Motor	B8	2/2
M13	F4-2	Dynamic Roller Transport Motor	B8	2/2
M14	F5-7	Registration Roller Transport Motor	B8	2/2
M15	F3-13	Direct-Send JG Motor	C8	2/2
M16	F6-5	FM6 Pawl Motor	C8	2/2
M17	F3-11	Stopper 3 Motor	C8	2/2
M18	F6-4	2nd Fold Motor	D8	2/2
M19	F6-7	Crease Motor	D8	2/2
<b>PCBs</b>				
PCB1	F7-1	Main Board	F5	-
PCB2	F7-3	PSU	A6	1/2
<b>Sensors</b>				
S1	F3-10	Stopper 3 HP Sensor	C1	1/2
S2	F3-9	Stopper 3 Paper Sensor	C1	1/2
S3	F6-1	Bypass Entrance Paper Sensor	C1	1/2
S4	F6-2	Bypass Exit Paper Sensor	C1	1/2
S5	F3-2	Stopper 2 HP Sensor	D1	1/2
S6	F3-4	Stopper 2 Paper Sensor	D1	1/2
S7	F5-6	Direct-Send JG HP Sensor	D1	1/2
S8	F5-3	Fold Plate HP Sensor	D1	1/2
S9	F4-5	Dynamic Roller HP Sensor	E1	1/2
S10	F6-3	Registration Roller HP Sensor	E1	1/2
S11	F4-3	Registration Sensor	E1	1/2
S12	F5-4	FM6 Pawl HP Sensor	E1	1/2
S13	F5-2	Jogger Fence HP Sensor	E1	1/2
S14	F3-8	Stopper 1 HP Sensor	F1	1/2
S15	F3-5	Stopper 1 Paper Sensor	F1	1/2
S16	F3-6	Positioning Roller HP Sensor	F1	1/2
S17	F2-4	Top Tray Exit Sensor	C6	1/2
S18	F2-6	Entrance Sensor	C6	1/2
S19	F2-2	Entrance JG HP Sensor	C6	1/2
S20	F2-7	Horizontal Path Paper Sensor	C6	1/2
S21	F2-5	Top Tray Paper Path Sensor	D6	1/2
S22	F2-3	Top Tray Full Sensor (E)	D6	1/2
S23	F2-1	Top Tray Full Sensor (R)	D6	1/2
S24	F2-9	Horizontal Path Exit Sensor	E6	1/2
S25	F2-8	Vertical Path Paper Sensor	E6	1/2
<b>Solenoids</b>				
SOL1	F1-6	Top Tray JG Solenoid	B4	2/2
SOL2	F1-4	Exit JG Solenoid	C4	2/2
SOL3	F1-3	Reverse JG Solenoid	C4	2/2
SOL4	F3-14	LE Stop Pawl Solenoid	C4	2/2
SOL5	F6-6	Bypass JG Solenoid	C4	2/2
<b>Switches</b>				
SW1	F7-2	Front Door Switch	B6	1/2
SW2	F7-5	Breaker Switch	A5	1/2
<b>Other</b>				
FAN1	F7-4	PSU Fan	E8	1/2

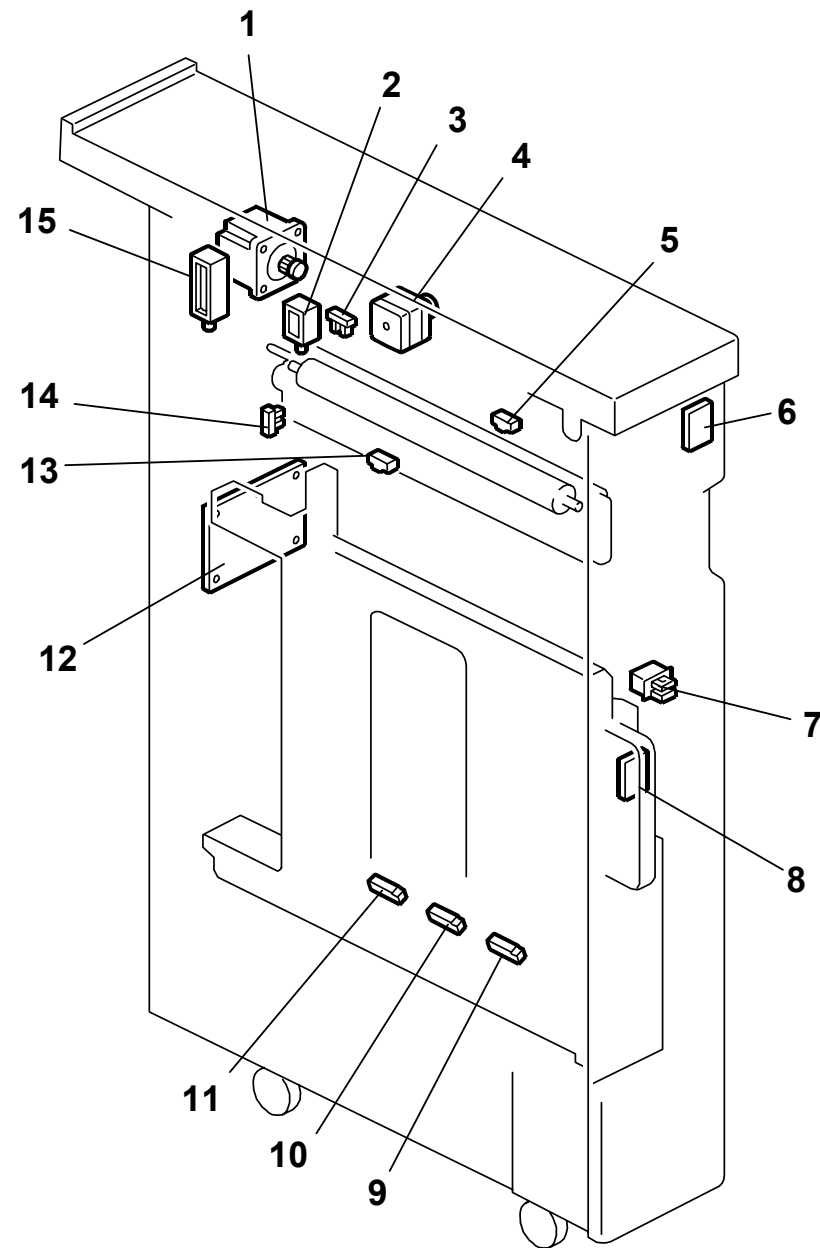
{Trimmer Unit Block Diagram}



# D457 POINT TO POINT DIAGRAM



# D457 ELECTRICAL COMPONENT LIST



Symbol	Index No.	Description	P to P
<b>Motors</b>			
M1	4	1st Lift Motor	B8
M2	1	1st Paper Feed Motor	B8
<b>PCBs</b>			
PCB1	12	Main Board	B4
PCB2	6	Front Door Jam LED	D9
PCB3	8	Inner Jam LED	D9
<b>Sensors</b>			
S1	5	Entrance Sensor	C8
S2	3	Soft Roller HP Sensor	C8
S3	13	Exit Sensor	D8
S4	9	Purge Tray Paper Sensor 1	D7
S5	10	Purge Tray Paper Sensor 2	E7
S6	11	Purge Tray Paper Sensor 3	E7
S7	14	De-curl Unit Set Sensor	E7
<b>Switche</b>			
SW1	7	Front Door Switch	D1
<b>Solenoids</b>			
SOL1	2	Purge Tray JG Solenoid	F8
SOL2	15	Exit Guide Solenoid	F8