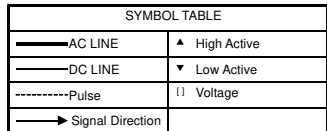
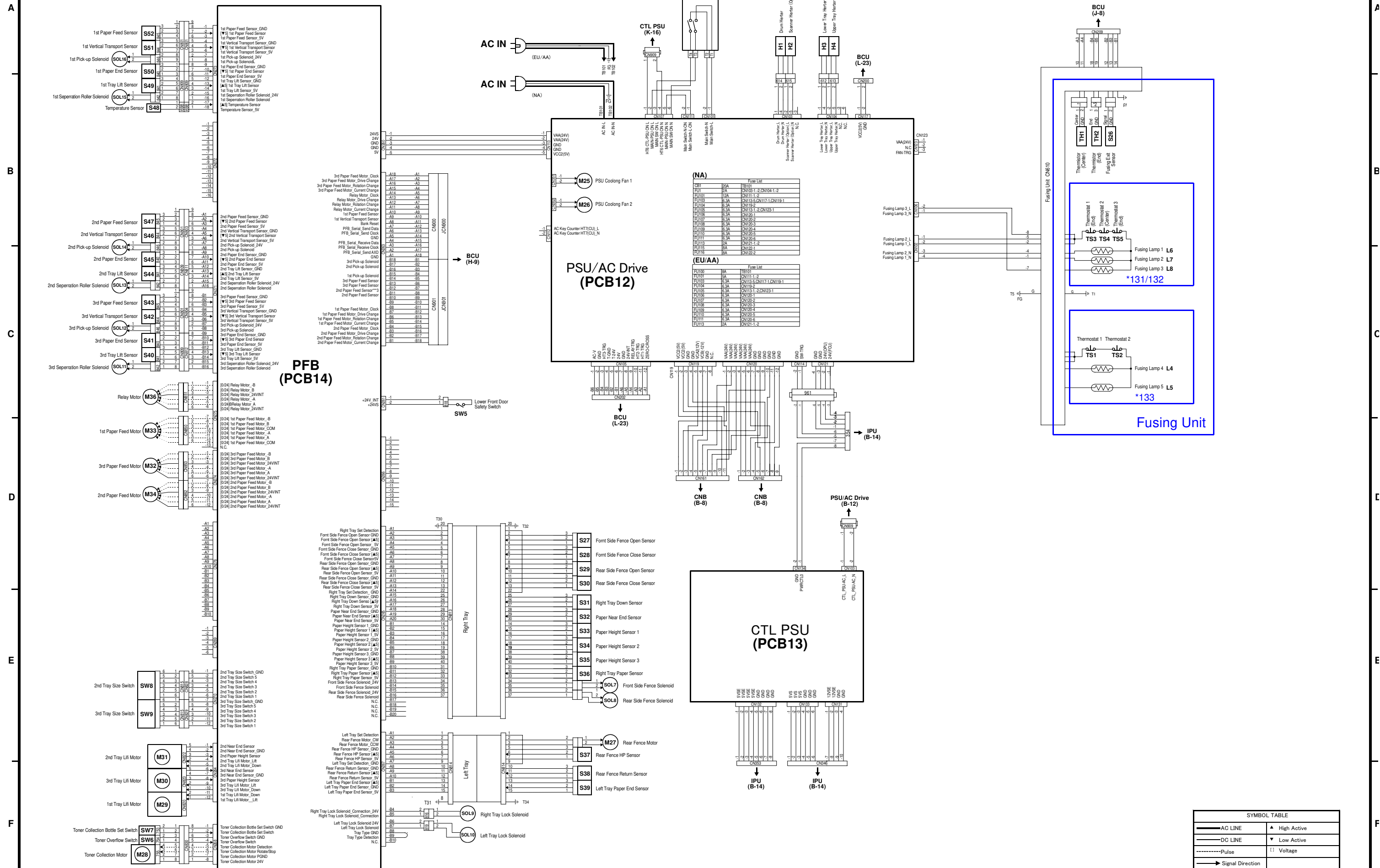


Controller Board



D131/D132/D133 POINT TO POINT DIAGRAM 2/4



D131/D132/D133 POINT TO POINT DIAGRAM 3/4

A

B

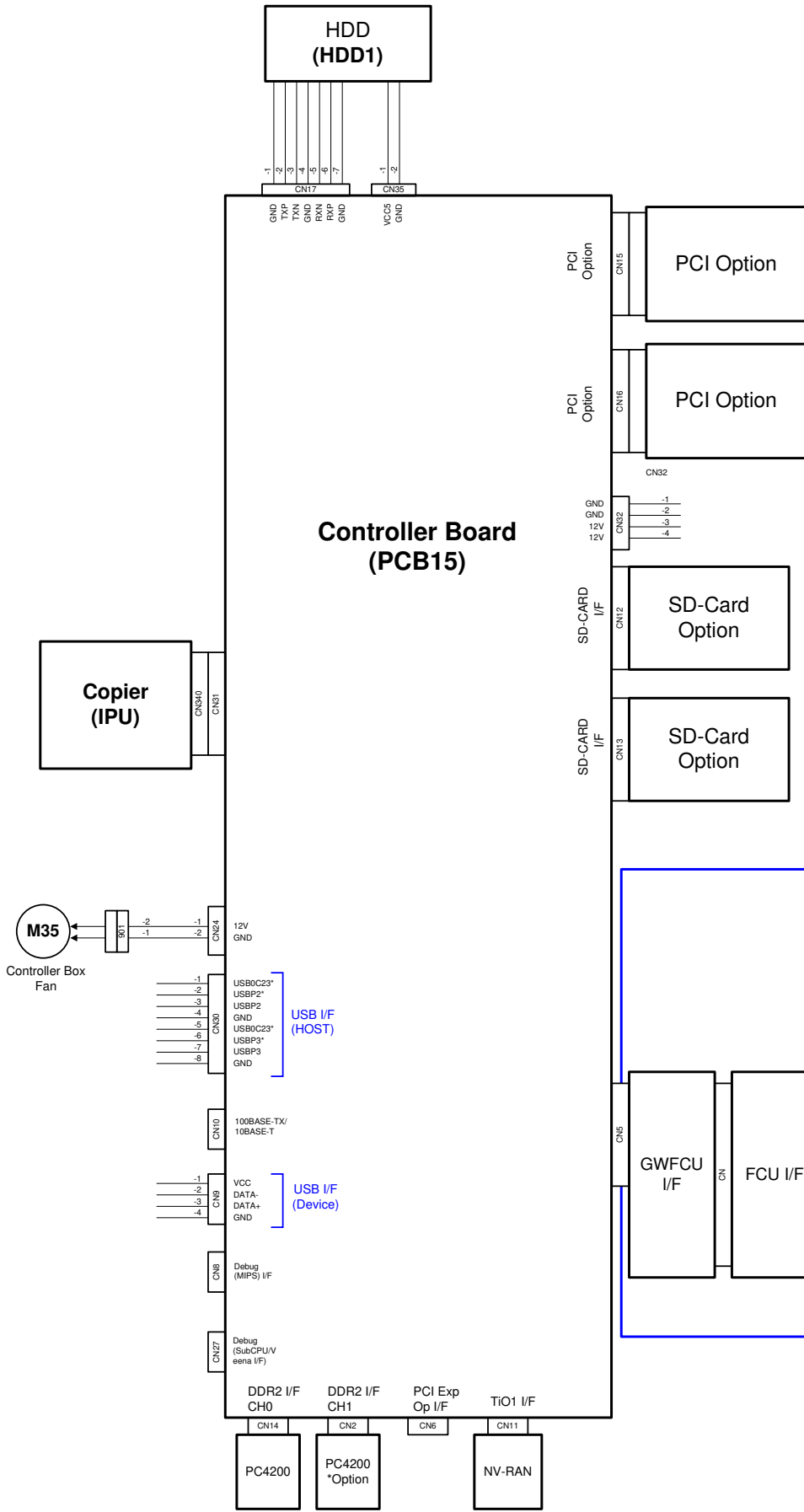
C

D

E

F

G



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

CN2 DDR-DIMM I/F	
1 VTTREF	26 DM1
2 GND	27 GND
3 GND	28 GND
4 DQ(4)	29 DQS1*
5 DQ(0)	30 CK0
6 DQ(5)	31 DQS1
7 DQ(1)	32 CK0*
8 GND	33 GND
9 GND	34 GND
10 DM0	35 DQ(10)
11 DQS0*	36 DQ(14)
12 GND	37 DQ(11)
13 DQS0	38 DQ(15)
14 DQ(6)	39 GND
15 GND	40 GND
16 DQ(7)	41 GND
17 DQ(2)	42 GND
18 GND	43 DQ(16)
19 DQ(3)	44 DQ(20)
20 DQ(12)	45 DQ(17)
21 GND	46 DQ(21)
22 DQ(13)	47 GND
23 DQ(8)	48 GND
24 GND	49 DQS2*
25 DQ(9)	50 N.C.
51 DQS2	52 DM2
53 GND	54 GND
55 DQ(18)	56 DQ(22)
57 DQ(19)	58 DQ(23)
59 GND	60 GND
61 DQ(24)	62 DQ(28)
63 DQ(25)	64 DQ(29)
65 GND	66 GND
67 DM3	68 DQS3*
69 N.C.	70 DQS3
71 GND	72 GND
73 DQ(26)	74 DQ(30)
75 DQ(27)	76 DQ(31)
77 GND	78 GND
79 CKE0	80 CKE1
81 VDDQ	82 VDDQ
83 N.C.	84 N.C.
85 BS2	86 BS2
87 VDDQ	88 VDDQ
89 MA(9)	90 MA(10)
91 MA(9)	92 MA(10)
93 MA(9)	94 MA(10)
95 VDDQ	96 VDDQ
97 MA(9)	98 MA(10)
99 MA(9)	100 MA(10)
101 MA(1)	102 MA(0)
103 VDDQ	104 VDDQ
105 MA(10)	106 BS1
107 BS0	108 RAS*
109 WE*	110 CS0*
111 VDDQ	112 VDDQ
113 CAS*	114 DT0
115 CS1*	116 MA(11)
117 VDDQ	118 VDDQ
119 OD11	120 N.C.
121 GND	122 GND
123 DQ(32)	124 DQ(36)
125 DQ(33)	126 DQ(37)
127 GND	128 GND
129 DQ(34)	130 DM4
131 DQS4*	132 GND
133 GND	134 DQ(38)
135 DQ(34)	136 DQ(39)
137 DQ(35)	138 GND
139 GND	140 DQ(44)
141 DQ(40)	142 DQ(45)
143 DQ(41)	144 GND
145 GND	146 DQS5*
147 DM5	148 DQS5
149 GND	150 GND
151	152
153	154
155	156
157	158
159	160
161	162
163	164
165	166
167	168
169	170
171	172
173	174
175	176

CN14 DDR-DIMM I/F	
1 VTTREF	26 DM1
2 GND	27 GND
3 GND	28 GND
4 DQ(4)	29 DQS1*
5 DQ(0)	30 CK0
6 DQ(5)	31 DQS1
7 DQ(1)	32 CK0*
8 GND	33 GND
9 GND	34 GND
10 DM0	35 DQ(10)
11 DQS0*	36 DQ(14)
12 GND	37 DQ(11)
13 DQS0	38 DQ(15)
14 DQ(6)	39 GND
15 GND	40 GND
16 DQ(7)	41 GND
17 DQ(2)	42 GND
18 GND	43 DQ(16)
19 DQ(3)	44 DQ(20)
20 DQ(12)	45 DQ(17)
21 GND	46 DQ(21)
22 DQ(13)	47 GND
23 DQ(8)	48 GND
24 GND	49 DQS2*
25 DQ(9)	50 N.C.
51 DQS2	52 DM2
53 GND	54 GND
55 DQ(18)	56 DQ(22)
57 DQ(19)	58 DQ(23)
59 GND	60 GND
61 DQ(24)	62 DQ(28)
63 DQ(25)	64 DQ(29)
65 GND	66 GND
67 DM3	68 DQS3*
69 N.C.	70 DQS3
71 GND	72 GND
73 DQ(26)	74 DQ(30)
75 DQ(27)	76 DQ(31)
77 GND	78 GND
79 CKE0	80 CKE1
81 VDDQ	82 VDDQ
83 N.C.	84 N.C.
85 BS2	86 BS2
87 VDDQ	88 VDDQ
89 MA(9)	90 MA(10)
91 MA(9)	92 MA(10)
93 MA(9)	94 MA(10)
95 VDDQ	96 VDDQ
97 MA(9)	98 MA(10)
99 MA(9)	100 MA(10)
101 MA(1)	102 MA(0)
103 VDDQ	104 VDDQ
105 MA(10)	106 BS1
107 BS0	108 RAS*
109 WE*	110 CS0*
111 VDDQ	112 VDDQ
113 CAS*	114 DT0
115 CS1*	116 MA(11)
117 VDDQ	118 VDDQ
119 OD11	120 N.C.
121 GND	122 GND
123 DQ(32)	124 DQ(36)
125 DQ(33)	126 DQ(37)
127 GND	128 GND
129 DQ(34)	130 DM4
131 DQS4*	132 GND
133 GND	134 DQ(38)
135 DQ(34)	136 DQ(39)
137 DQ(35)	138 GND
139 GND	140 DQ(44)
141 DQ(40)	142 DQ(45)
143 DQ(41)	144 GND
145 GND	146 DQS5*
147 DM5	148 DQS5
149 GND	150 GND
151	152
153	154
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173	174
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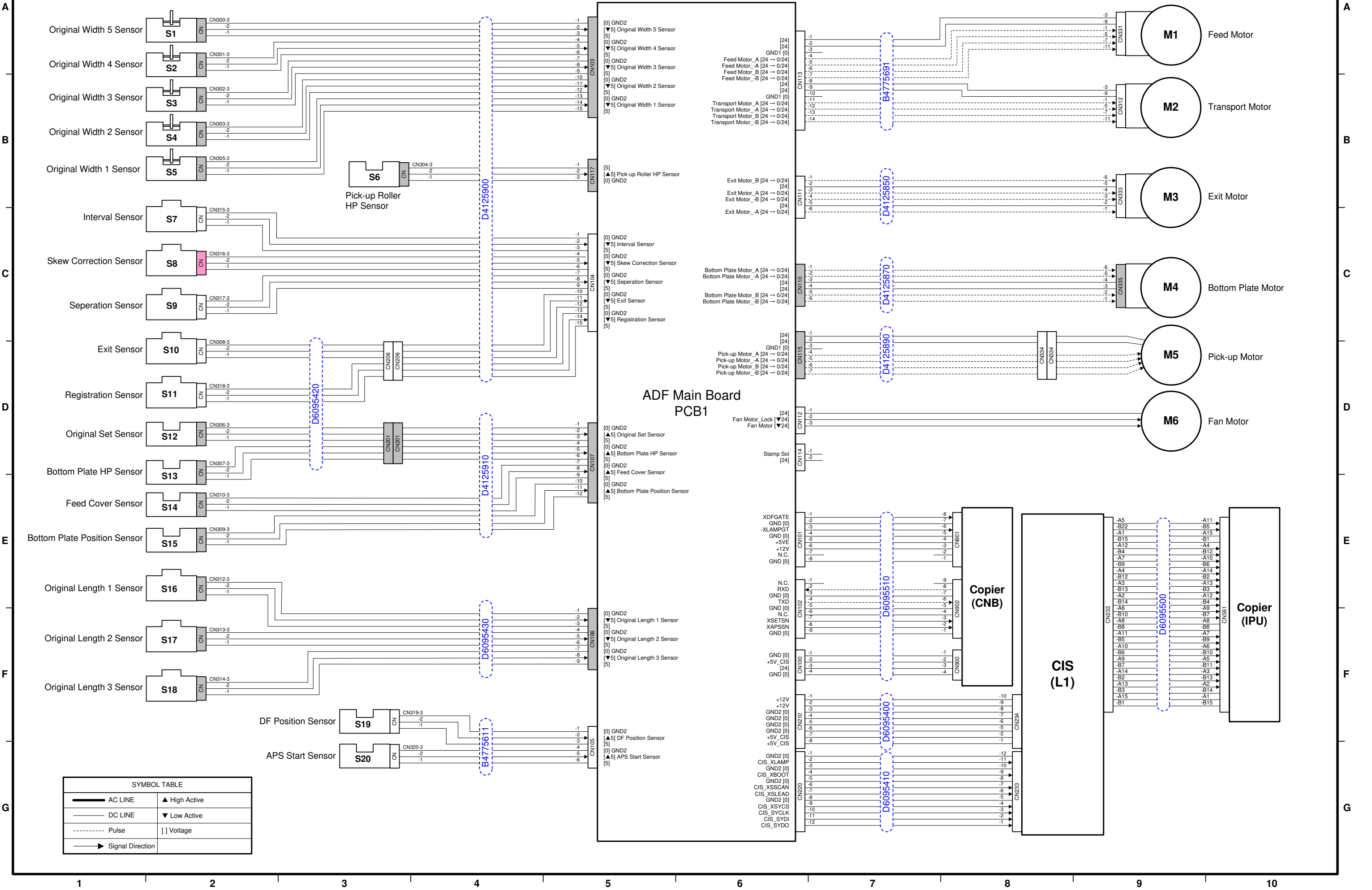
CN5	
1 SVE	26 CBE2
2 SVE	27 CBE0
3 SVE	28 PCIRST
4 SVE	29 DEVSEL
5 SVE	30 IRDY
6 SVE	31 PERR
7 SVE	32 PAR
8 SV	33 GND
9 INTD	34 AD1
10 INTA	35 AD12
11 REQ6	36 AD10
12 GNT16	37 AD8
13 REQ1	38 GND
14 GNT1	39 AD6
15 GND	40 AD4
16 AD30	41 AD2
17 AD28	42 AD0
18 AD26	43 GND
19 AD24	44 CBE6
20 GND	45 CBE4
21 AD22	46 S4REQ
22 AD20	47 S4PAR
23 AD18	48 GND
24 AD16	49 AD2
25 AD14	50 PAR
51 AD58	52 AD56
53 GND	54 AD54
55 AD52	56 AD50
57 AD48	58 GND
59 GND	60 AD46
61 AD44	62 AD42
63 AD40	64 AD38
65 AD36	66 AD34
67 AD32	68 AD30
69 AD28	70 AD26
71 AD24	72 AD22
73 AD20	74 AD18
75 AD16	76 AD14
77 AD12	78 AD10
79 AD8	80 AD6
81 AD4	82 AD2
83 GND	84 CBE2*
85 AD7	86 AD6
87 AD5	88 AD4
89 AD3	90 AD2
91 GND	92 CBE0*
93 AD1	94 AD0
95 GND	96 AD-1
97 GND	98 AD-2
99 GND	100 AD-3
101 SVE	102 SVE
103 SVE	104 SVE
105 SVE	106 SVE
107 SVE	108 SVE
109 SVE	110 SVE
111 REQ3	112 REQ2
113 REQ1	114 GNT2
115 GND	116 AD5
117 AD4	118 AD3
119 AD2	120 AD1
121 AD0	122 AD-1
123 AD-2	124 AD-3
125 GND	126 GND
127 GND	128 GND
129 GND	130 GND
131 GND	132 GND
133 GND	134 GND
135 GND	136 GND
137 GND	138 GND
139 GND	140 GND
141 GND	142 GND
143 GND	144 GND
145 GND	146 GND
147 GND	148 GND
149 GND	150 GND
151	152
153	154
155	156
157	158
159	160
161	162
163	164
165	166
167	168
169	170
171	172
173	174
175	176

CN15 PCI OPTION UPPER	
1 GND	26 CBE3*
2 INTC	27 CBE1*
3 GND	28 DSEL2 PCI
4 reserved	29 AD(23)
5 GND	30 AD(22)
6 CLKRUN	31 GND
7 GND	32 AD(21)
8 PCIRST OPT*	33 AD(20)
9 GND	34 AD(19)
10 PCLK OPT1	35 GND
11 GND	36 AD(18)
12 GNT1*	37 AD(17)
13 GND	38 AD(16)
14 REQ1*	39 GND
15 GND	40 CBE2*
16 PME*	41 FRAME*
17 AD(31)	42 IRDY*
18 AD(30)	43 GND
19 AD(29)	44 TRDY*
20 AD(28)	45 DEVSEL*
21 AD(27)	46 STOP*
22 AD(26)	47 GND
23 GND	48 PERR*
24 AD(25)	49 SERR*
25 AD(24)	50 PAR
51 GND	52 GND
53 AD(15)	54 AD(14)
55 GND	56 AD(13)
57 AD(12)	58 AD(11)
59 GND	60 AD(10)
61 AD(9)	62 AD(8)
63 GND	64 CBE0*
65 AD(7)	66 AD(6)
67 AD(5)	68 AD(4)
69 AD(3)	70 AD(2)
71 3.3VEP	72 AD(1)
73 3.3VEP	74 AD(0)
75 3.3VEP	76 reserved
77 3.3VEP	78 reserved
79 3.3VEP	80 reserved
81 3.3VEP	82 reserved
83 3.3VEP	84 reserved
85 3.3VEP	86 reserved
87 3.3VEP	88 +2.4V
89 3.3VEP	90 reserved
91 3.3VEP	92 reserved
93 3.3VEP	94 reserved
95 3.3VEP	96 reserved
97 3.3VEP	98 reserved
99 3.3VEP	100 reserved
101 +5VE IN	102 +5VE IN
103 +5VE IN	104 +5VE IN
105 +5VE IN	106 +5VE IN
107 N.C.	108 GND
109 GND	110 GND
111 +12V IN	112 +12V IN
113 +12V IN	114 +12V IN
115 +12V IN	116 +12V IN
117 +12V IN	118 +12V IN
119 +12V IN	120 +12V IN
121 +12V IN	122 +12V IN
123 +12V IN	124 +12V IN
125 +12V IN	126 GND
127 GND	128 GND
129 GND	130 GND
131 GND	132 GND
133 GND	134 GND
135 GND	136 GND
137 GND	138 GND
139 GND	140 GND
141 GND	142 GND
143 GND	144 GND
145 GND	146 GND
147 GND	148 GND
149 GND	150 GND
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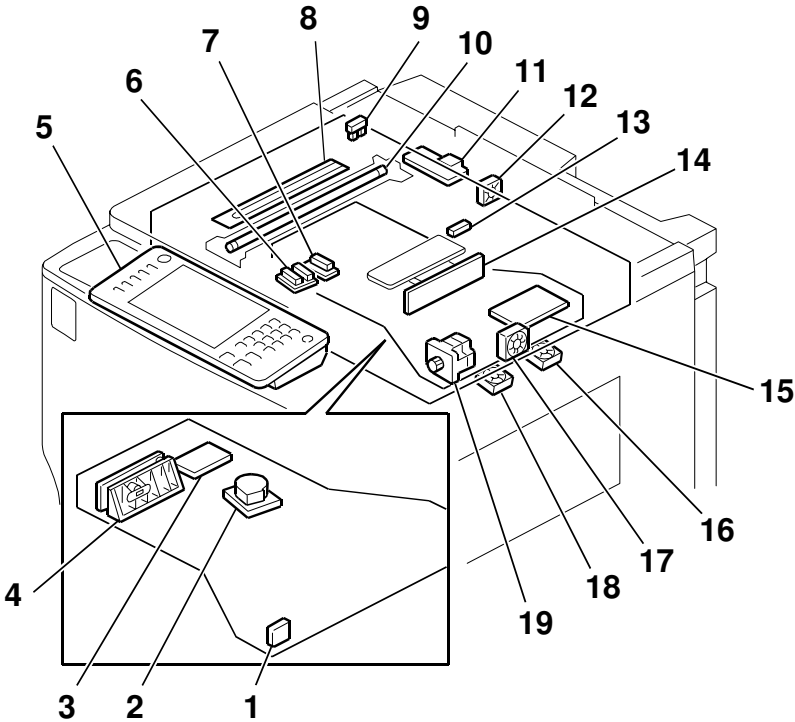
CN16 PCI OPTION LOWER	
1 GND	26 CBE3*
2 INTD	27 CBE1*
3 GND	28 DSEL3 PCI
4 reserved	29 AD(23)
5 GND	30 AD(22)
6 CLKRUN	31 GND
7 GND	32 AD(21)
8 PCIRST OPT*	33 AD(20)
9 GND	34 AD(19)
10 PCLK OPT2	35 GND
11 GND	36 AD(18)
12 GNT1*	37 AD(17)
13 GND	38 AD(16)
14 REQ2*	39 GND
15 GND	40 CBE2*
16 PME*	41 FRAME*
17 AD(31)	42 IRDY*
18 AD(30)	43 GND
19 AD(29)	44 TRDY*
20 AD(28)	45 DEVSEL*
21 AD(27)	46 STOP*
22 AD(26)	47 GND
23 GND	48 PERR*
24 AD(25)	49 SERR*
25 AD(24)	50 PAR
51 GND	52 GND
53 AD(15)	54 AD(14)
55 GND	56 AD(13)
57 AD(12)	58 AD(11)
59 GND	60 AD(10)
61 AD(9)	62 AD(8)
63 GND	64 CBE0*
65 AD(7)	66 AD(6)
67 AD(5)	68 AD(4)
69 AD(3)	70 AD(2)
71 3.3VEP	72 AD(1)
73 3.3VEP	74 AD(0)
75 3.3VEP	76 reserved
77 3.3VEP	78 reserved
79 3.3VEP	80 reserved
81 3.3VEP	82 reserved
83 3.3VEP	84 reserved
85 3.3VEP	86 reserved
87 3.3VEP	88 +2.4V
89 3.3VEP	90 reserved
91 3.3VEP	92 reserved
93 3.3VEP	94 reserved
95 3.3VEP	96 reserved
97 3.3VEP	98 reserved
99 3.3VEP	100 reserved
101 +5VE IN	102 +5VE IN
103 +5VE IN	104 +5VE IN
105 +5VE IN	106 +5VE IN
107 N.C.	108 GND
109 GND	110 GND
111 +12V IN	112 +12V IN
113 +12V IN	114 +12V IN
115 +12V IN	116 +12V IN
117 +12V IN	118 +12V IN
119 +12V IN	120 +12V IN
121 +12V IN	122 +12V IN
123 +12V IN	124 +12V IN
125 +12V IN	126 GND
127 GND	128 GND
129 GND	130 GND
131 GND	132 GND
133 GND	134 GND
135 GND	136 GND
137 GND	138 GND
139 GND	140 GND
141 GND	142 GND
143 GND	144 GND
145 GND	146 GND
147 GND	148 GND
149 GND	150 GND
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CN31																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
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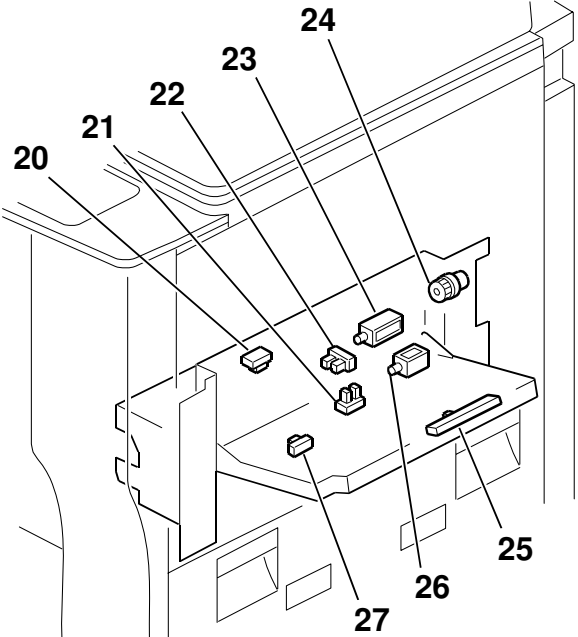
ADF (D131/D132/D133) POINT TO POINT DIAGRAM 4/4



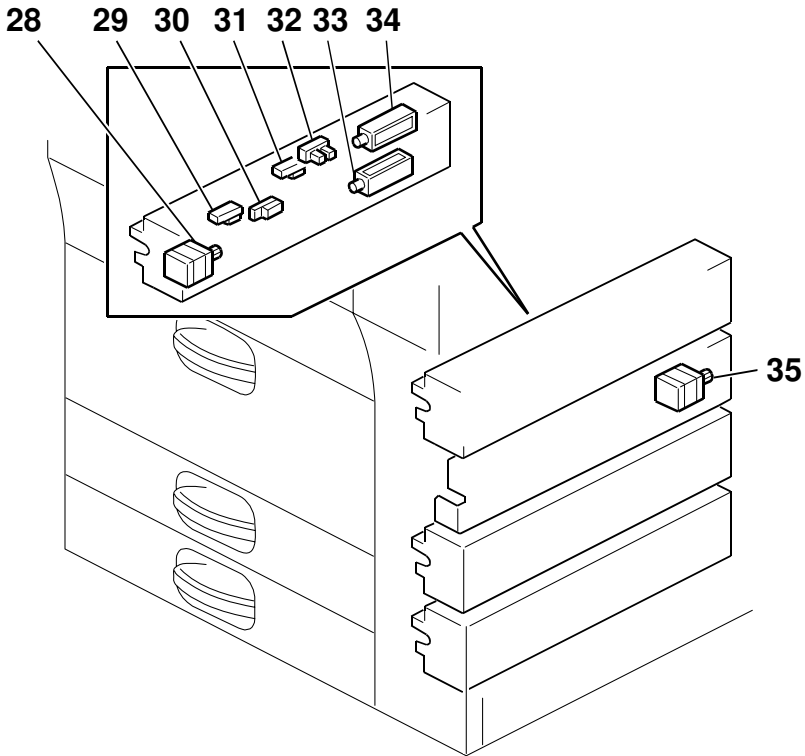
D131/D132/D133 ELECTRICAL COMPONENT LAYOUT (1/4)



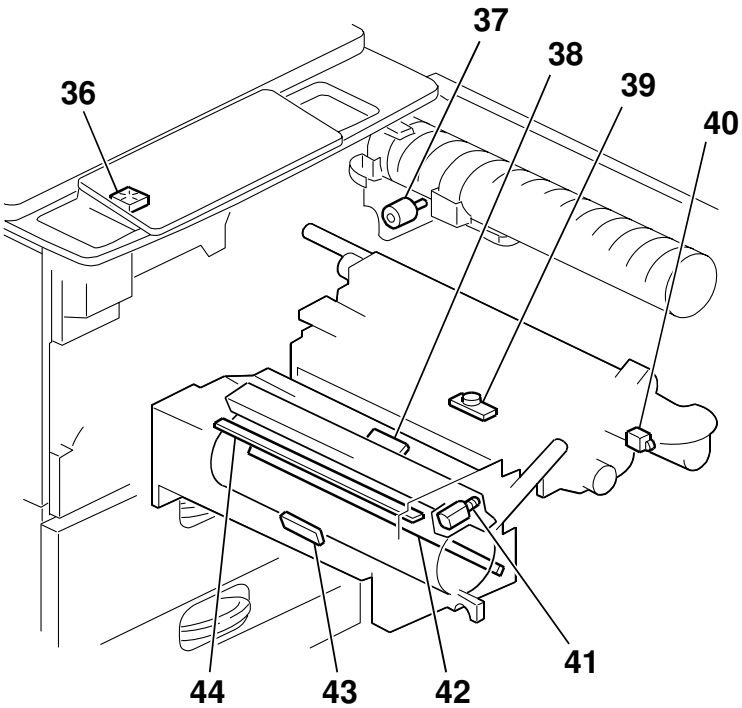
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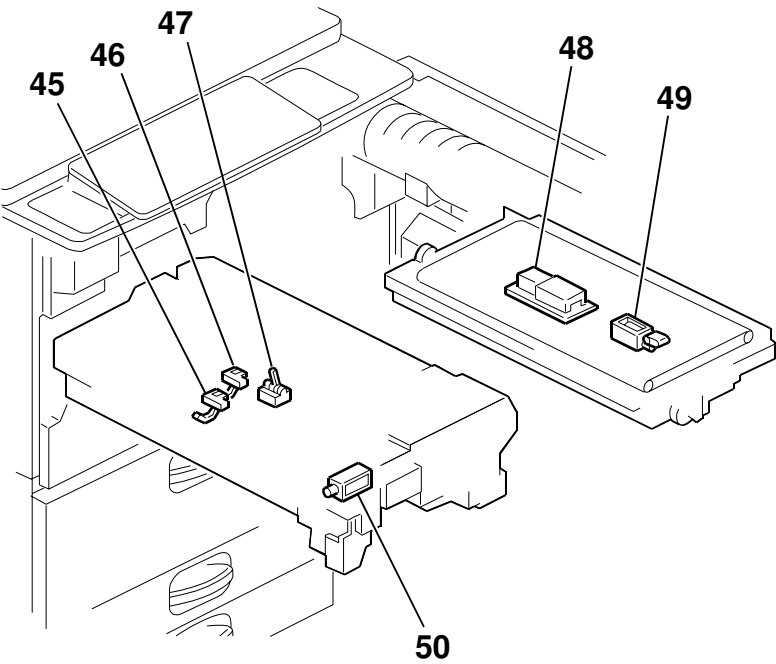
D1310912.wmf



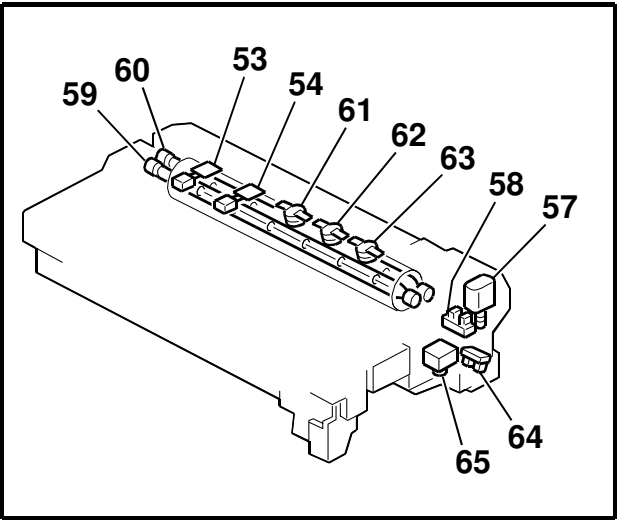
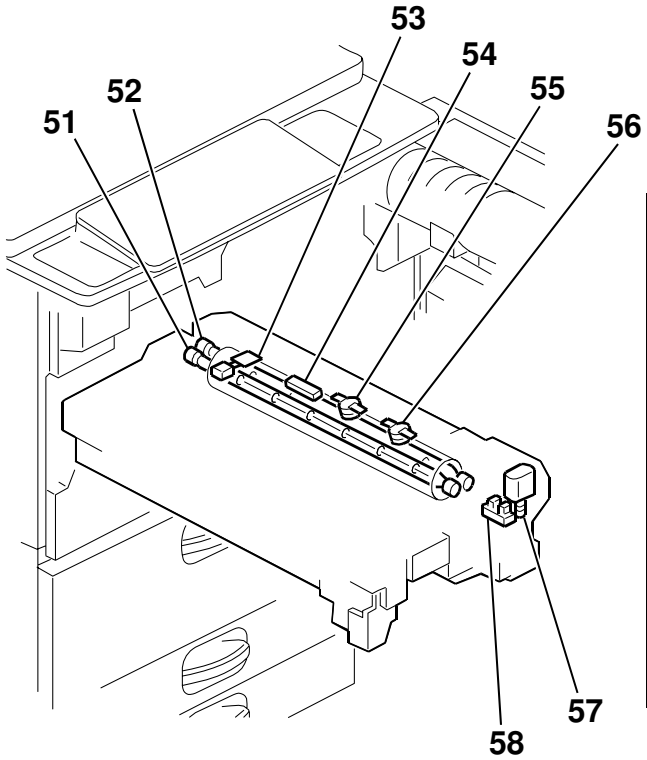
D1310905.wmf



D1310901.wmf

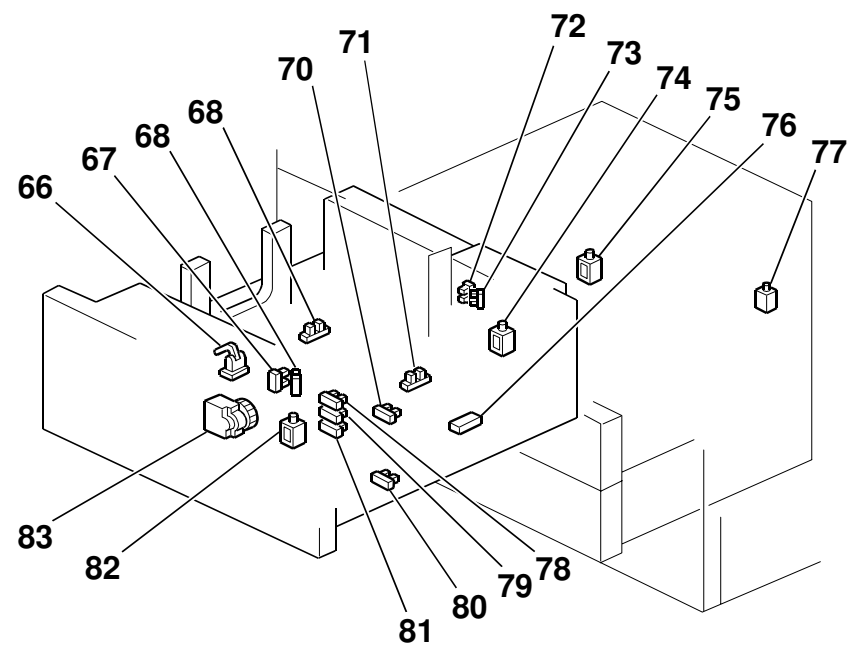


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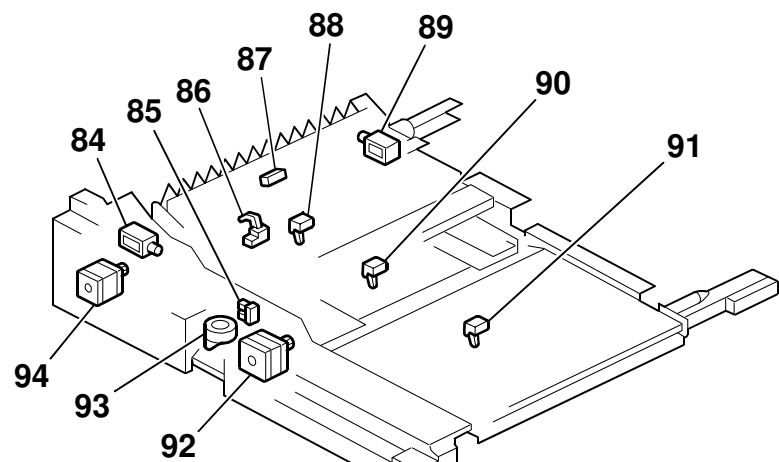


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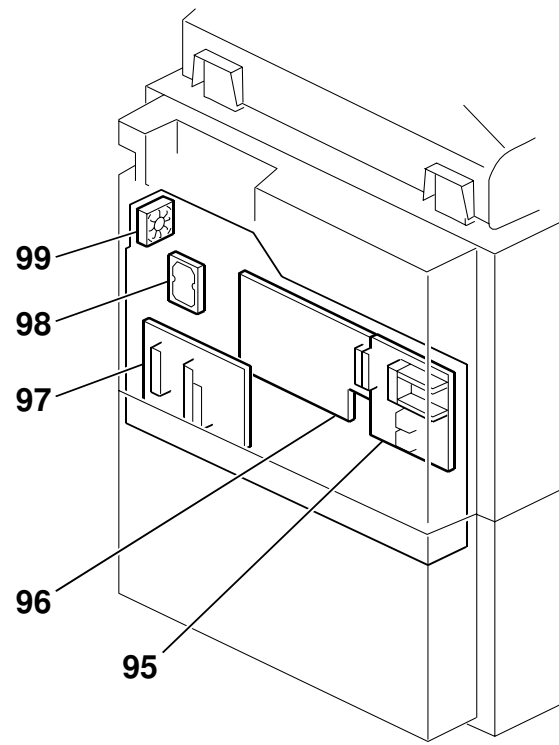
D131/D132/D133 ELECTRICAL COMPONENT LAYOUT (2/4)



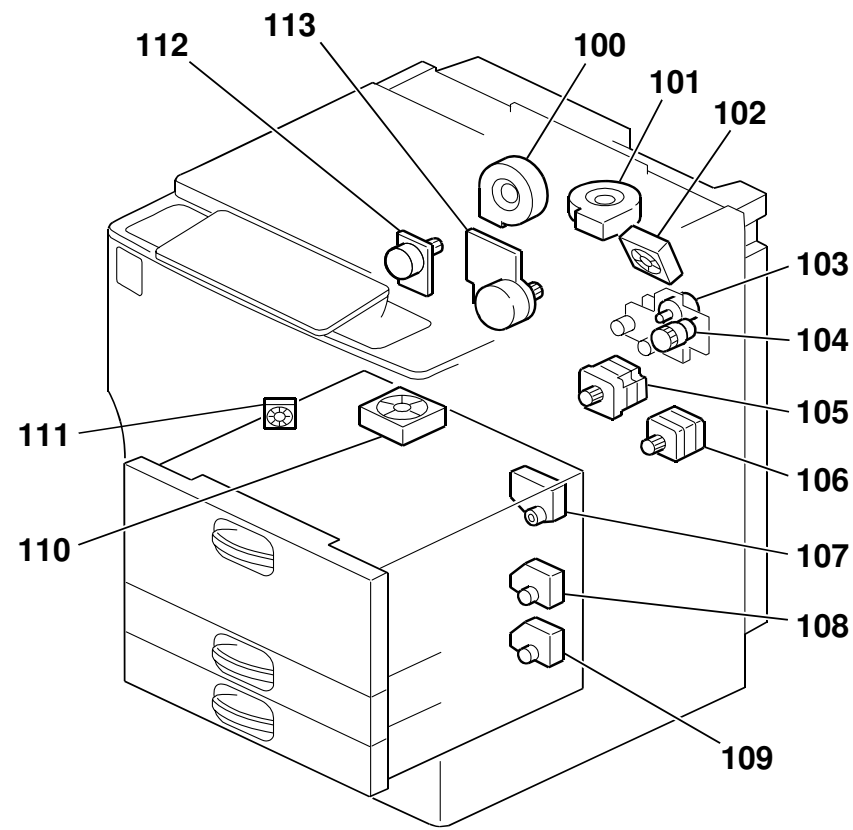
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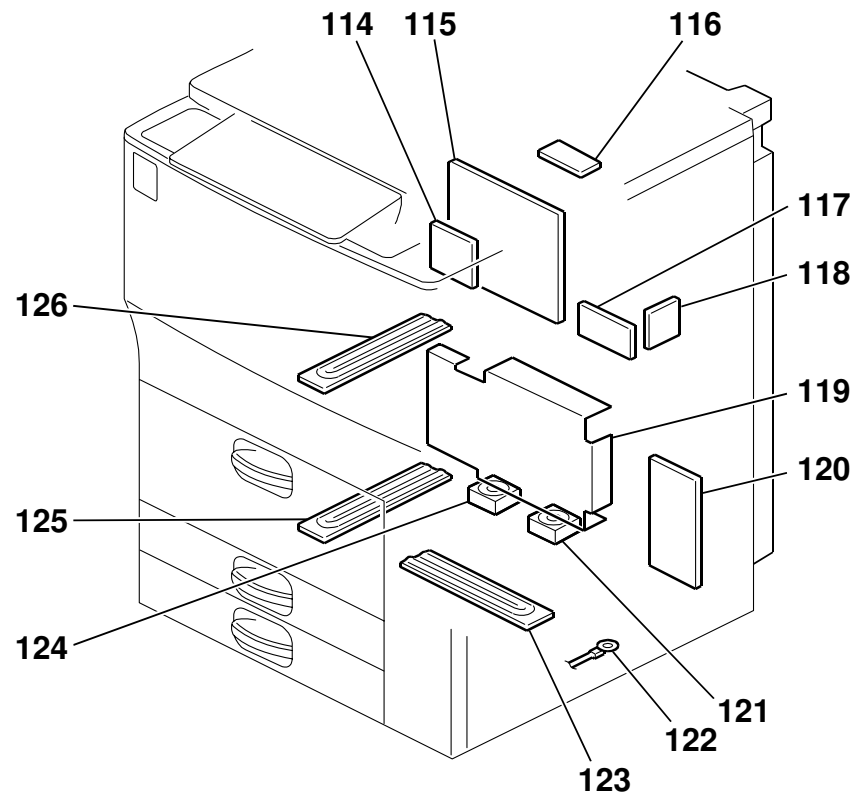
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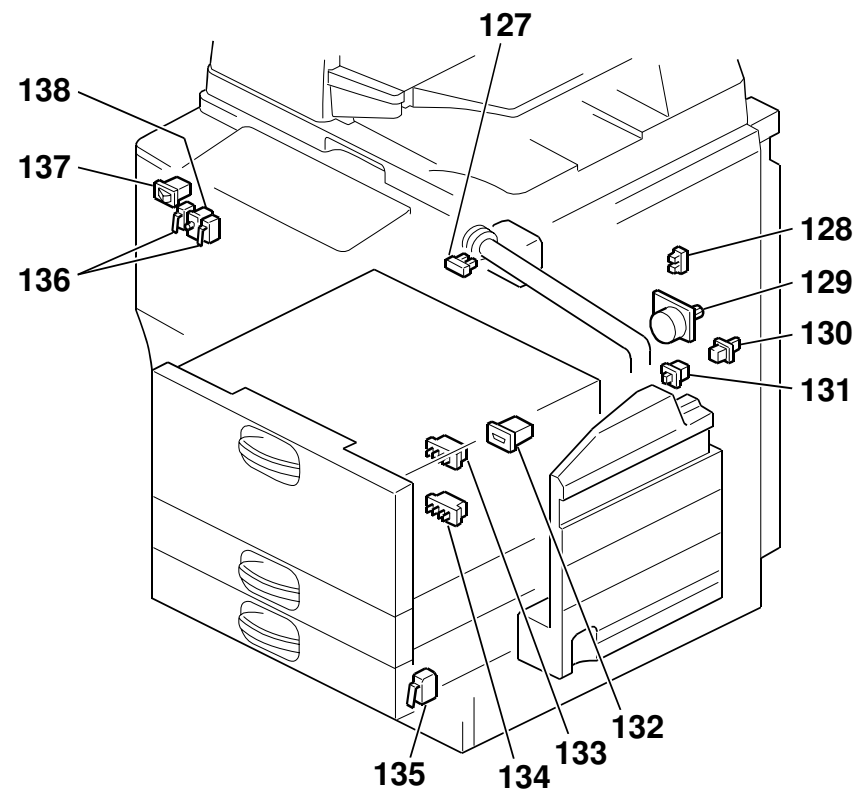
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D1310908.wmf



D1310906.wmf



D1310907.wmf

D131/D132/D133 ELECTRICAL COMPONENT LAYOUT (3/4)

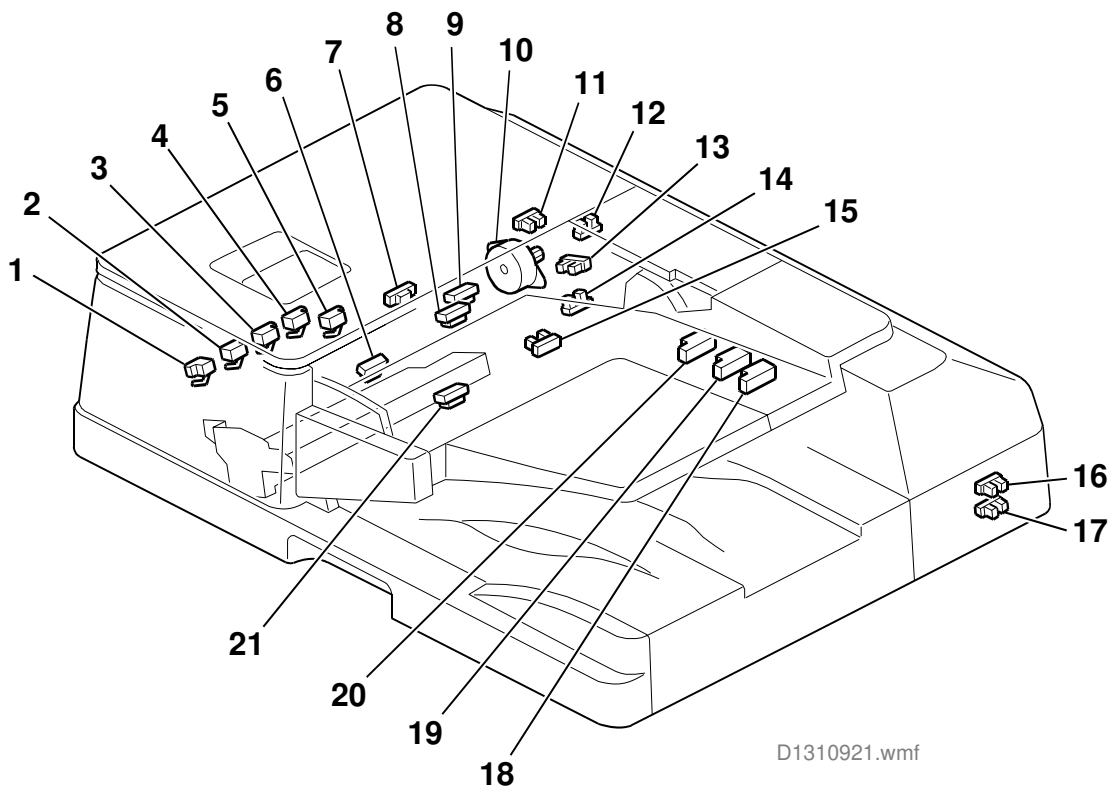
Symbol	Index No.	Description	P to P	Page
Sensors				
S1	6	Original Width Sensor 0~2	B6	1/4
S2	7	Original Length Sensor 3	B6	1/4
S3	13	Original Length Sensor 4	B6	1/4
S4	9	Scanner HP Sensor	C6	1/4
S5	22	Gide Plate Position Sensor	F8	1/4
S6	25	By-pass Paper Size Sensor	F8	1/4
S7	27	Relay Sensor	E8	1/4
S8	21	By-pass Paper End Sensor	E8	1/4
S9	20	Registration Sensor	F8	1/4
S10	39	Toner Density Sensor	F7	1/4
S11	40	Toner End Sensor	F7	1/4
S12	127	Toner Collection Coil Sensor	E6	1/4
S13	91	Duplex Transport Sensor 3	F6	1/4
S14	90	Duplex Transport Sensor 2	E6	1/4
S15	85	Duplex Jogger HP Sensor	F6	1/4
S16	88	Duplex Transport Sensor 1	E6	1/4
S17	87	Duplex Inverter Sensor	E6	1/4
S18	86	Duplex Extrance Sensor	E6	1/4
S19	38	Drum Potential Sensor	F5	1/4
S20	43	Image Density Sensor	F5	1/4
S21	45	Paper Exit Sensor	F5	1/4
S22	46	Exit Unit Entrance Sensor	F5	1/4
S23	58	Web End Sensor	F4	1/4
S24	64	Fusing Pressure Release Sensor *D131/D132	F4	1/4
S25	128	Toner Collection Motor Sensor	E4	1/4
S26	47	Fusing Exit Sensor	B8	2/4
S27	68	Fornt Side Fence Open Sensor	D4	2/4
S28	67	Fornt Side Fence Close Sensor	D4	2/4
S29	73	Rear Side Fence Open Sensor	D4	2/4
S30	72	Rear Side Fence Close Sensor	D4	2/4
S31	80	Right Tray Down Sensor	E4	2/4
S32	70	Paper Near End Sensor	E4	2/4
S33	78	Paper Height Sensor 1	E4	2/4
S34	79	Paper Height Sensor 2	E4	2/4
S35	81	Paper Height Sensor 3	E4	2/4
S36	76	Right Tray Paper Sensor	E4	2/4
S37	69	Rear Fence HP Sensor	E4	2/4
S38	71	Rear Fence Return Sensor	F4	2/4
S39	66	Left Tray Paper End Sensor	F4	2/4
S40	32	3rd Tray Lift Sensor	C1	2/4
S41	31	3rd Paper End Sensor	C1	2/4
S42	30	3rd Vertical Transport Sensor	C1	2/4
S43	29	3rd Paper Feed Sensor	C1	2/4
S44	32	2nd Tray Lift Sensor	C1	2/4
S45	31	2nd Paper End Sensor	C1	2/4
S46	30	2nd Vertical Transport Sensor	B1	2/4
S47	29	2nd Paper Feed Sensor	B1	2/4
S48	122	Temperature Sensor	B1	2/4
S49	32	1st Tray Lift Sensor	B1	2/4
S50	31	1st Paper End Sensor	A1	2/4
S51	30	1st Vertical Transport Sensor	A1	2/4
S52	29	1st Paper Feed Sensor	A1	2/4

Symbol	Index No.	Description	P to P	Page
Motors				
M1	113	Drum Motor	B1	1/4
M2	112	Fusing/Exit Motor	B2	1/4
M3	103	Development Motor	B2	1/4
M4	2	Polygon Mirror Motor	B5	1/4
M5	19	Scanner Motor	B5	1/4
M6	17	Scanner Colling Fan (Right)	B5	1/4
M7	12	Lamp Stabilizer CoolingFan	C7	1/4
M8	37	Toner Supply Motor	F9	1/4
M9	110	Duplex Cooling Fan	F8	1/4
M10	93	Duplex Jogger Motor	F6	1/4
M11	111	PCU Cooling Fan	F5	1/4
M12	41	Charge Corona Wire Cleaner Motor	F5	1/4
M13	57	Web Motor	F4	1/4
M14	65	Fusing Pressure Release Motor *D131/D132	F4	1/4
M15	102	Drum Cooling Fan	F3	1/4
M16	18	Development Unit Cooling Fan 2	F3	1/4
M17	16	Development Unit Cooling Fan 1	F3	1/4
M18	101	Charge P.P Cooling Fan	F3	1/4
M19	100	Exhanst Fan	E3	1/4
M20	36	Toner Cooling Fan	E2	1/4
M21	94	Duplex Inverter Motor	D1	1/4
M22	92	Duplex Transport Motor	D1	1/4
M23	105	Registration Motor	D1	1/4
M24	106	By-pass Feed Motor	D2	1/4
M25	121	PCU Cooling Fan 1	B4	2/4
M26	124	PCU Cooling Fan 2	B4	2/4
M27	83	Rear Fence Motor	E4	2/4
M28	129	Toner Collection Motor	F1	2/4
M29	107	1st Tray Lifi Motor	F1	2/4
M30	109	3rd Tray Lifi Motor	F1	2/4
M31	108	2nd Tray Lifi Motor	E1	2/4
M32	28	3rd Paper Feed Motor	D1	2/4
M33	28	1st Paper Feed Motor	D1	2/4
M34	28	2nd Paper Feed Motor	D1	2/4
M35	99	Controller Box Fan	E1	3/4
M36	35	Relay Motor	C1	2/4
Clutch				
MC1	24	By-pass Feed Clutch	F8	1/4
MC2	104	Toner Supply Clutch	-	-

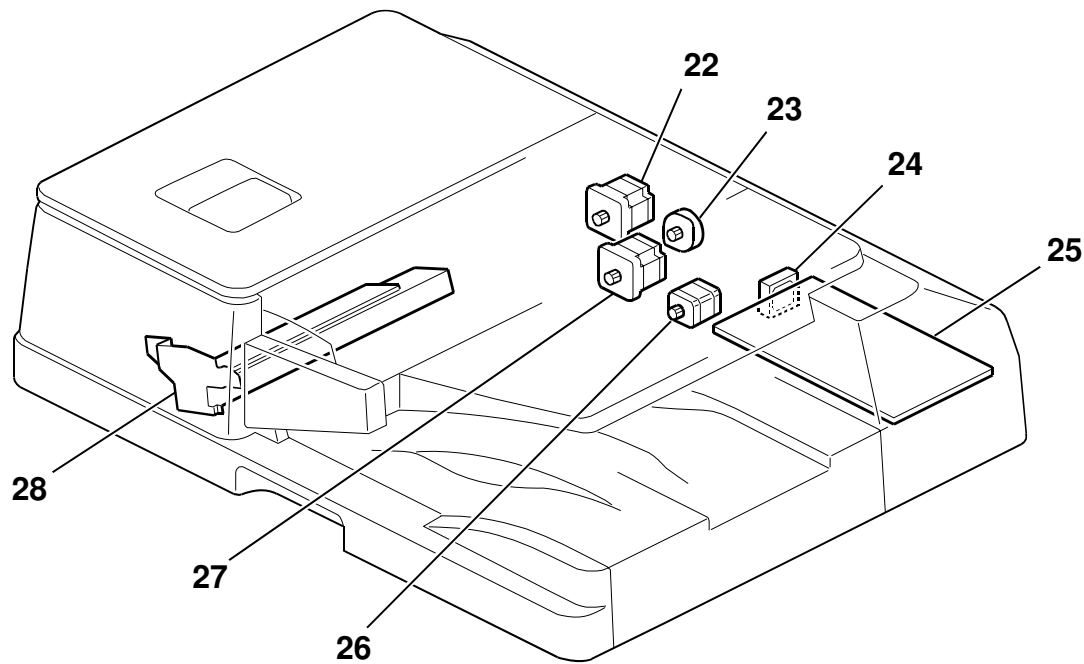
Symbol	Index No.	Description	P to P	Page
PCBs				
PCB1	114	CNB (Connection Board)	C3	1/4
PCB2	96	IPU (Image Processing Control Unit)	E8	1/4
PCB3	3	Polygon Mirror Motor Drive Board	B4	1/4
PCB4	116	Power Pack (C,G) *Charge	E4	1/4
PCB5	11	Lamp Stabilizer	B5	1/4
PCB6	15	SIOB	D6	1/4
PCB7	14	SBU (Sensor Board Unit)	D7	1/4
PCB9	4	LDB (Laser Drive Board)	C9	1/4
PCB10	115	BCU (Base Engine Control Unit)	D6	1/4
PCB11	117	DRB (Drive Board)	E1	1/4
PCB12	119	PSU/AC Drive	C5	2/4
PCB13	97	CTL PSU (Controller PSU)	E6	2/4
PCB14	120	PFB (Paper Feed Board)	C2	2/4
PCB15	95	Controller Board	C2	3/4
PCB16	1	Laser Synchronization Detector Board	B4	1/4
PCB17	118	Power Pack (Development)	E7	1/4
PCB18	48	Power Pack (Trancter Belt)	F7	1/4
Solenoids				
SOL1	26	Gide Plate Solenoid	F8	1/4
SOL2	23	By-pass Pick-up Solenoid	F8	1/4
SOL3	49	Trancter Belt Lift Solenoid	F7	1/4
SOL4	89	Dulex Janction Gate Solenoid	E5	1/4
SOL5	84	Reverse Triggger Roller Slenoid	E5	1/4
SOL6	50	Exit Janction Gate Solenoid	F4	1/4
SOL7	82	Front Side Fence Solenoid	E4	2/4
SOL8	74	Rear Side Fence Solenoid	E4	2/4
SOL9	77	Right Tray Lock Solenoid	F4	2/4
SOL10	75	Left Tray Lock Solenoid	F4	2/4
SOL11	33	3rd Seperration Roller Solenoid	C1	2/4
SOL12	34	3rd Pick-up Solenoid	C1	2/4
SOL13	33	2nd Seperration Roller Solenoid	C1	2/4
SOL14	34	2nd Pick-up Solenoid	C1	2/4
SOL15	33	1st Seperration Roller Solenoid	B1	2/4
SOL16	34	1st Pick-up Solenoid	A1	2/4
Switches				
SW1	136	Front Door Safety Switch 1	C9	1/4
SW2	138	Front Door Satety Switch 2	C1	1/4
SW5	135	Lower Front Door Safety Switch	C3	2/4
SW6	130	Toner Overflow Switch	F1	2/4
SW7	131	Toner Collection Bottle Set Switch	F1	2/4
SW8	133	2nd Tray Size Switch	F1	2/4
SW9	134	3rd Tray Size Switch	E1	2/4
SW10	137	Main Switch	A5	2/4

Symbol	Index No.	Description	P to P	Page
Thermistors				
TH1	54	Thermistor (Center)	B8	2/4
TH2	53	Thermistor (End)	B8	2/4
Thermostats				
TS1	55	Thermostat 1 *D131/D132	C8	2/4
TS2	56	Thermostat 2 *D131/D132	C8	2/4
TS3	61	Thermostat 1 (End) *D133	B8	2/4
TS4	62	Thermostat 2 (Center) *D133	B8	2/4
TS5	63	Thermostat 3 (End) *D133	B8	2/4
HerTERS				
H1	126	Drum Herter	A6	2/4
H2	8	Scanner Herter (Option)	A6	2/4
H3	123	Lower Tray Herter	A6	2/4
H4	125	Upper Tray Herter	A6	2/4
Lamps				
L1	10	Exposure Lamp	E5	1/4
L2	42	PTL	F5	1/4
L3	44	Quenching Lamp	F5	1/4
L4	51	Fusing Lamp 4 *D131/D132	C8	2/4
L5	52	Fusing Lamp 5 *D131/D132	C8	2/4
L6	59	Fusing Lamp 1 *D133	C8	2/4
L7	60	Fusing Lamp 2 *D133	C8	2/4
L8	-	Fusing Lamp 3 *D133	C8	2/4
Others				
CO1	132	Mechanical Counter	F7	1/4
HDD1	98	HDD	A2	3/4
OT1	5	Operation Panel	A4	1/4

ADF (For D131/D132/D133) ELECTRICAL COMPONENT LAYOUT (4/4)

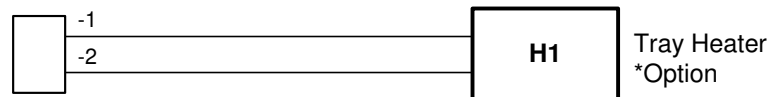
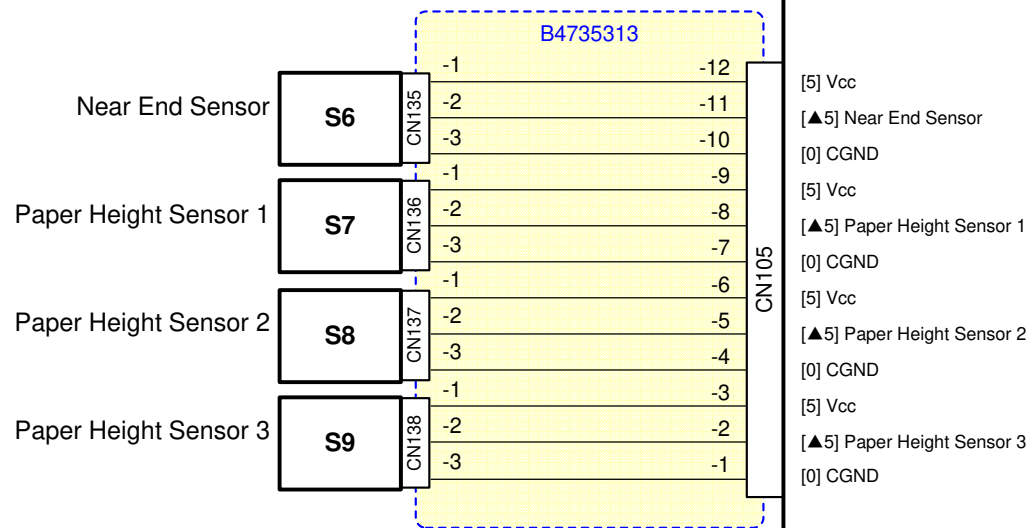
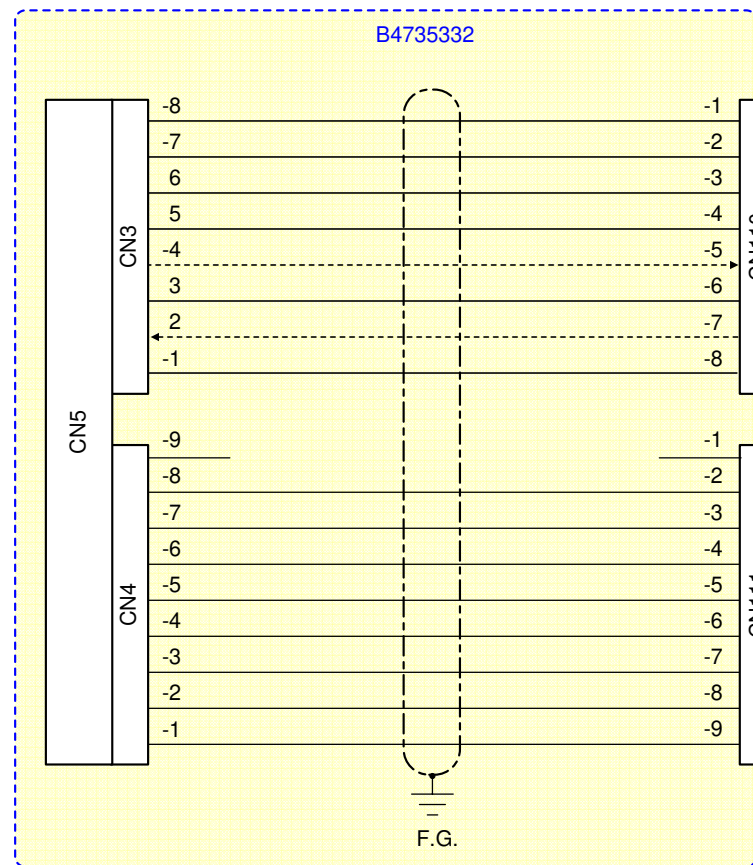
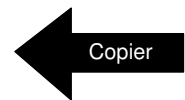


Symbol	Index No.	Description	P to P	Page
Sensors				
S1	1	Original Width 5 Sensor	A2	4/4
S2	2	Original Width 4 Sensor	A2	4/4
S3	3	Original Width 3 Sensor	B2	4/4
S4	4	Original Width 2 Senso	B2	4/4
S5	5	Original Width 1 Sensor	B2	4/4
S6	11	Pick-up Roller HP Sensor	B3	4/4
S7	7	Interval Sensor	C2	4/4
S8	9	Skew Correction Sensor	C2	4/4
S9	8	Seperation Sensor	C2	4/4
S10	21	Exit Sensor	D2	4/4
S11	6	Registration Sensor	D2	4/4
S12	14	Original Set Sensor	D2	4/4
S13	15	Bottom Plate HP Sensor	D2-E2	4/4
S14	12	Feed Cover Sensor	E2	4/4
S15	13	Bottom Plate Position Sensor	E2	4/4
S16	18	Original Length 1 Sensor	E2	4/4
S17	19	Original Length 2 Sensor	F2	4/4
S18	20	Original Length 3 Sensor	F2	4/4
S19	16	DF Position Sensor	F3	4/4
S20	17	APS Start Sensor	G3	4/4

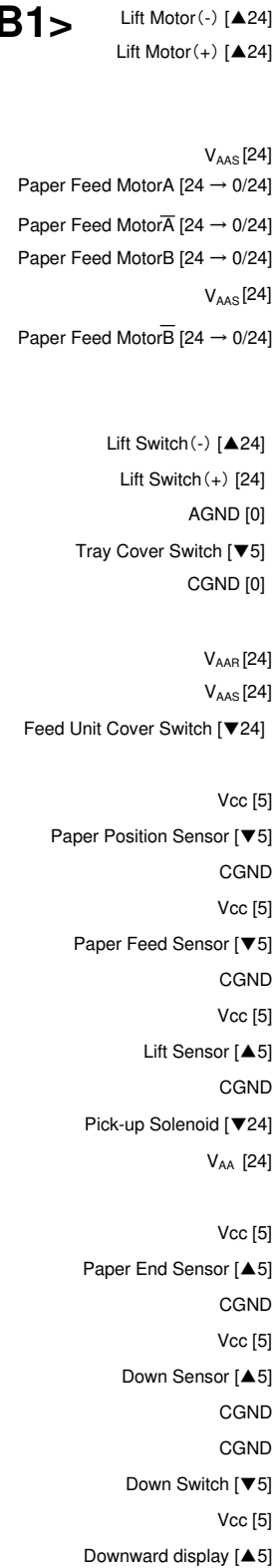


Symbol	Index No.	Description	P to P	Page
Motors				
M1	22	Feed Motor	A8	4/4
M2	27	Transport Motor	B8	4/4
M3	26	Exit Motor	B8	4/4
M4	23	Bottom Plate Motor	C8	4/4
M5	10	Pick-up Motor	D8	4/4
M6	24	Fan Motor	D8	4/4
PCB				
PCB1	25	ADF Main Board	D6	4/4
Lamp				
L1	28	CIS	F8-F9	4/4

LCT (D613) POINT TO POINT DIAGRAM

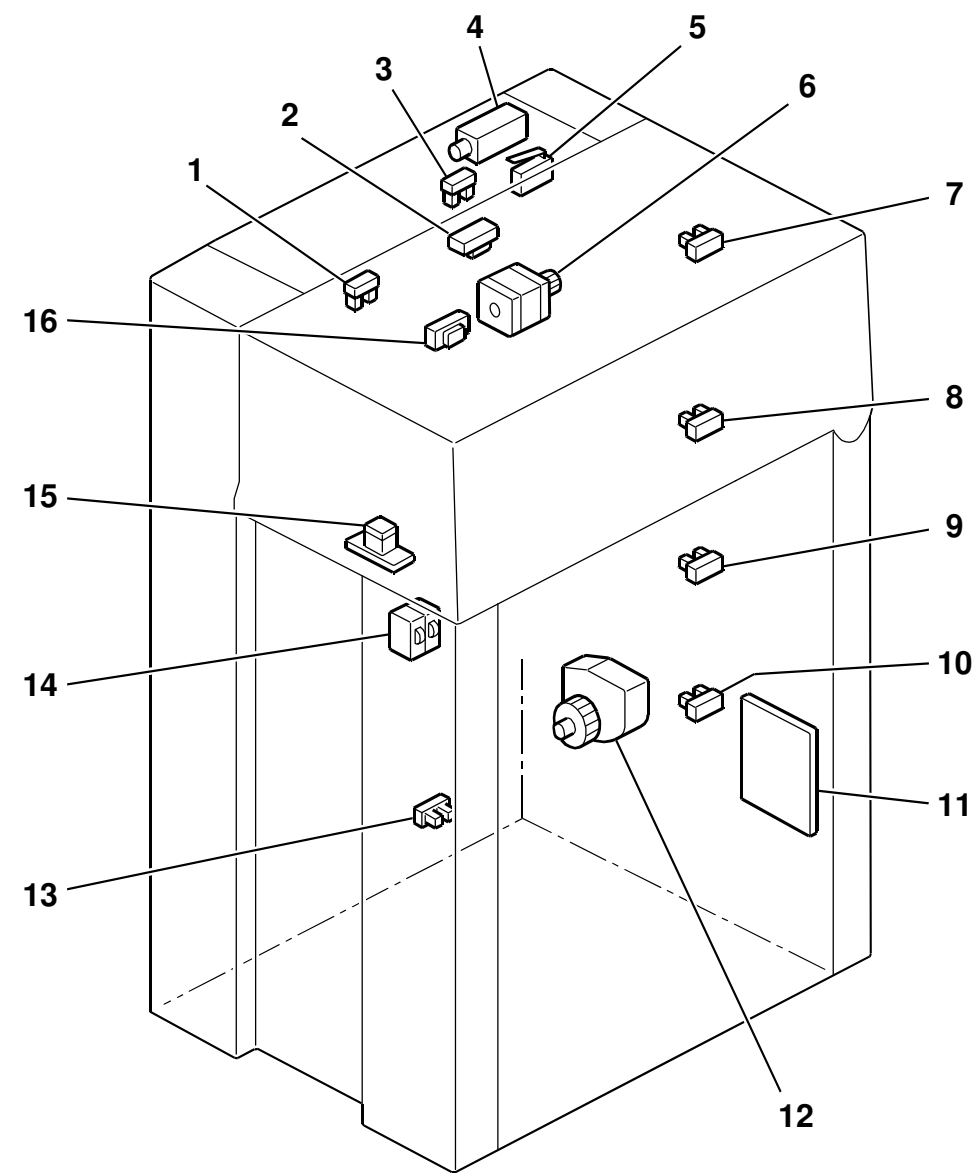


Main Board
<PCB1>



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

LCT (D613) ELECTRICAL COMPONENT LAYOUT



D6130901.wmf

Symbol	Index No.	Description	P to P
Sensors			
S1	1	Paper Feed Sensor	D8-D9
S2	2	Paper End Sensor	E8-E9
S3	3	Lift Sensor	E8-E9
S4	16	Paper Position Sensor	D8-D9
S5	13	Down Sensor	F8-F9
S6	7	Near End Sensor	E3
S7	8	Paper Height Sensor 1	E3
S8	9	Paper Height Sensor 2	E3
S9	10	Paper Height Sensor 3	F3
Motors			
M1	6	Paper Feed Motor	A8-A9
M2	12	Lift Motor	A8-A9
PCB			
PCB1	11	Main Board	A5-A6
Solenoid			
SOL1	4	Pick-up Solenoid	E9
Switches			
SW1,3	14	Lift Switch / Tray Cover Switch (Signal)	C8-C9
SW4	5	Feed Unit Cover Switch	D8-D9
SW5	15	Down Switch	F8-F9
Other			
H1	-	Tray Heater *Option	G4

COVER INTERPOSER TRAY (D614) POINT TO POINT DIAGRAM

A

B

C

D

E

F

A

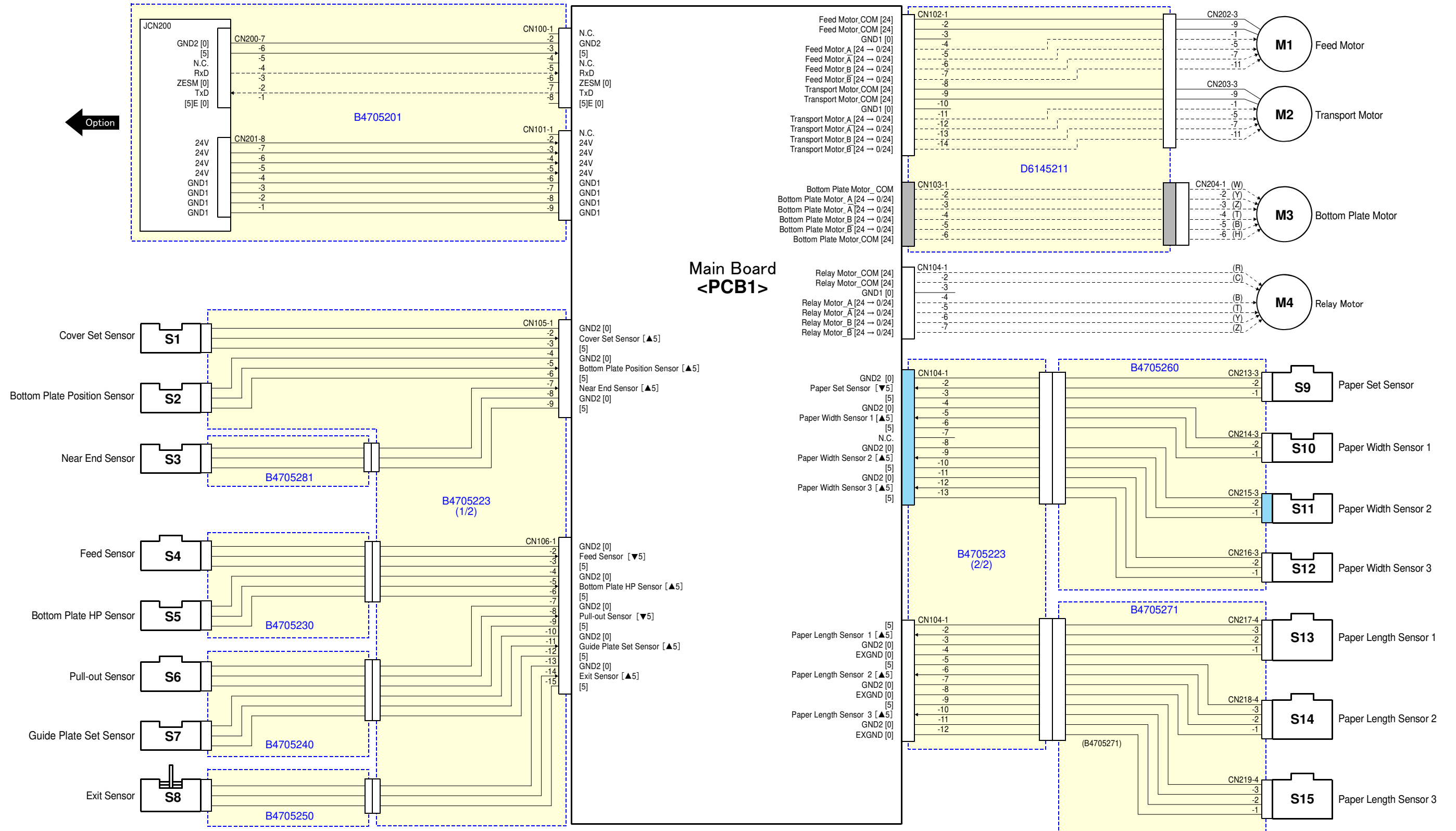
B

C

D

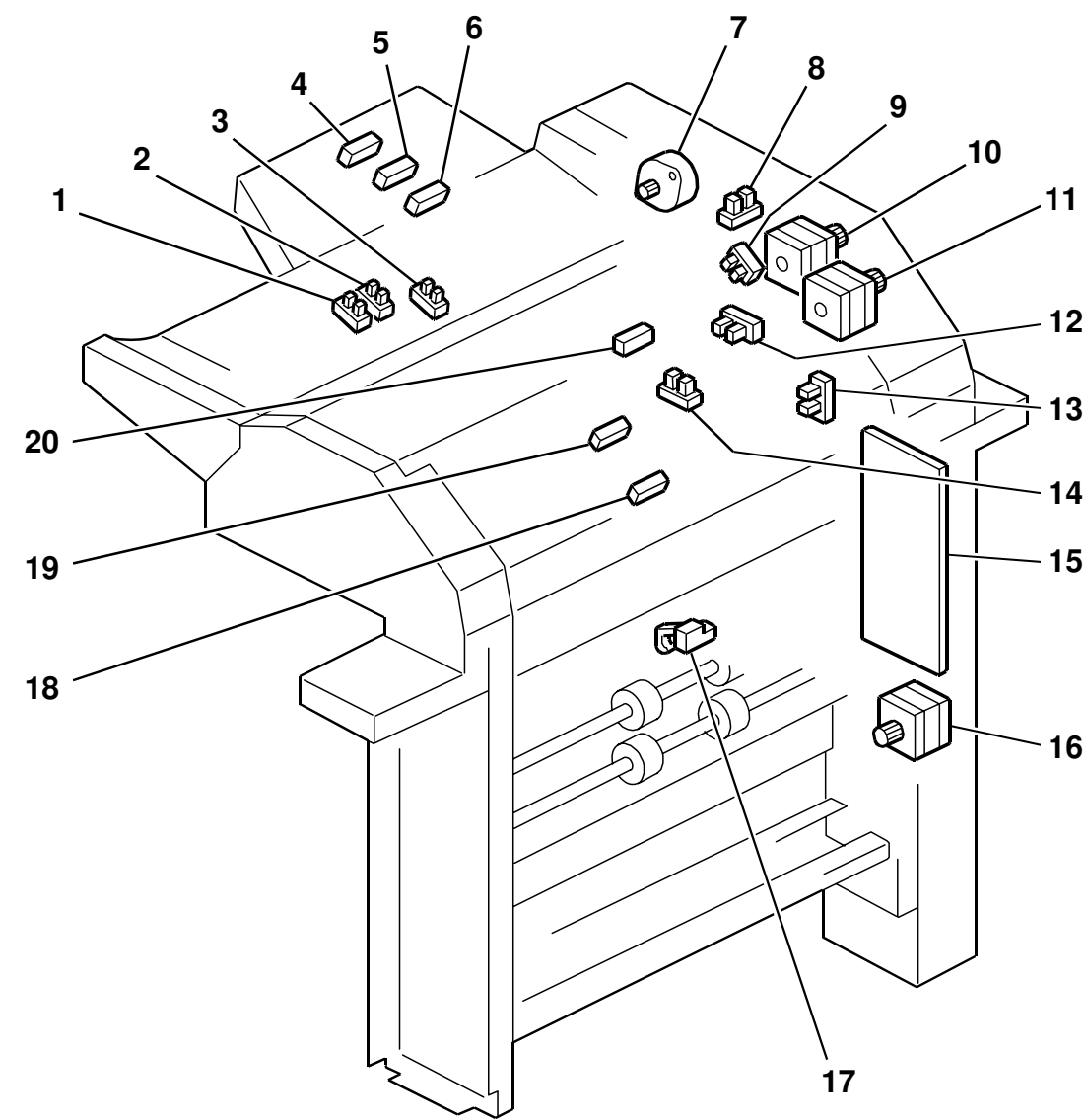
E

F



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

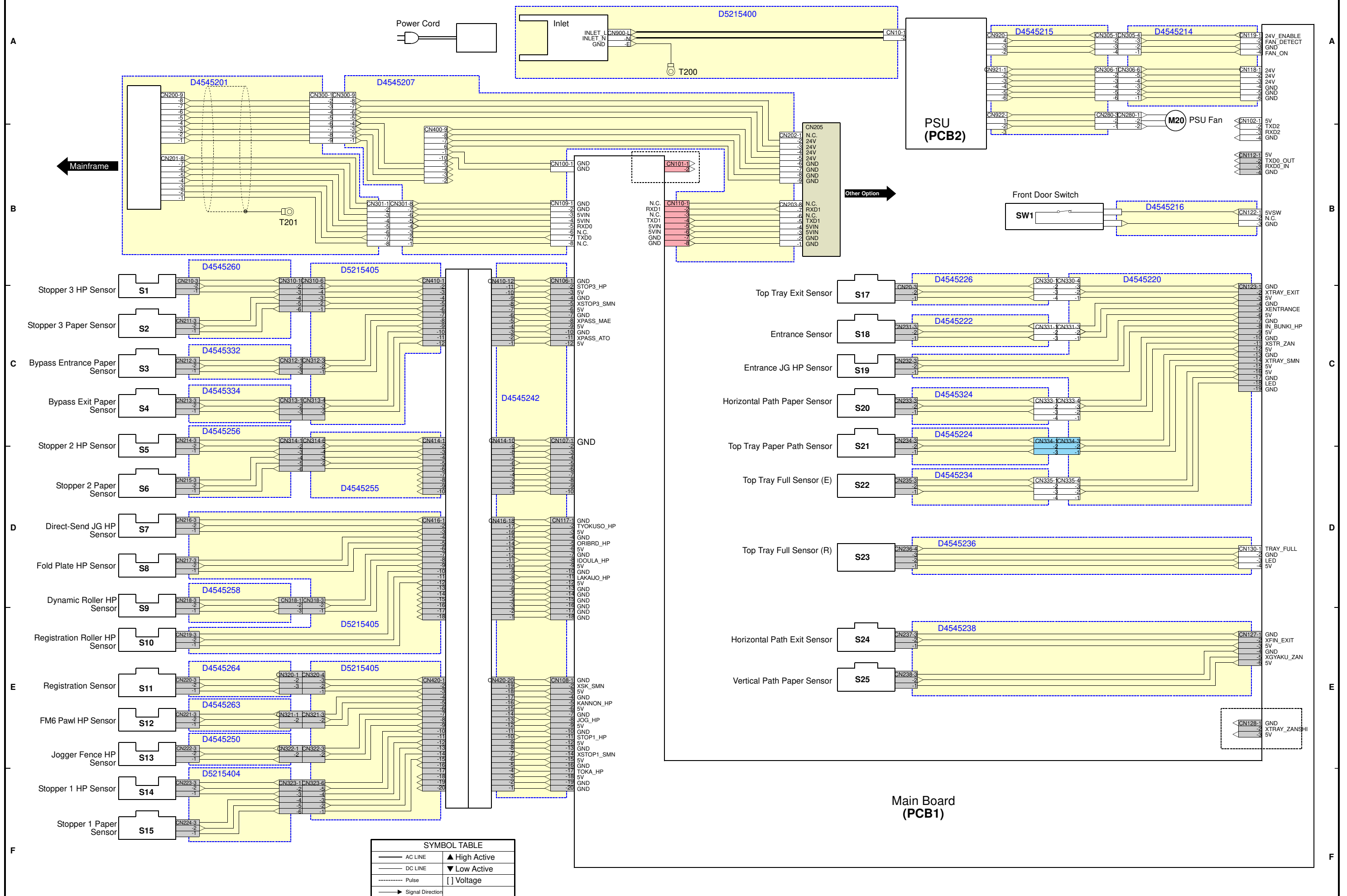
COVER INTERPOSER TRAY (D614) ELECTRICAL COMPONENT LAYOUT



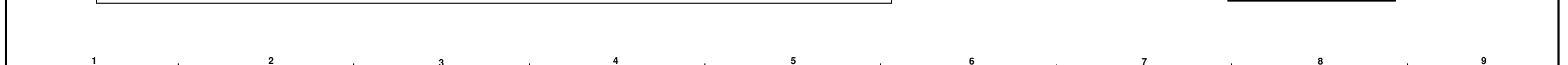
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Symbol	Index No.	Description	P to P
Sensors			
S1	8	Cover Set Sensor	C2
S2	9	Bottom Plate Position Sensor	C2
S3	12	Near End Sensor	D2
S4	19	Feed Sensor	D2
S5	14	Bottom Plate HP Sensor	D2
S6	18	Pull-out Sensor	E2
S7	13	Guide Plate Set Sensor	E2
S8	17	Exit Sensor	E2
S9	20	Paper Set Sensor	C8
S10	3	Paper Width Sensor 1	C8
S11	2	Paper Width Sensor 2	D8
S12	1	Paper Width Sensor 3	D8
S13	6	Paper Length Sensor 1	D8
S14	5	Paper Length Sensor 2	E8
S15	4	Paper Length Sensor 3	E8
Motors			
M1	10	Feed Motor	A8
M2	11	Transport Motor	B8
M3	7	Bottom Plate Motor	B8
M4	16	Relay Motor	C8
PCB			
PCB1	15	Main Board	

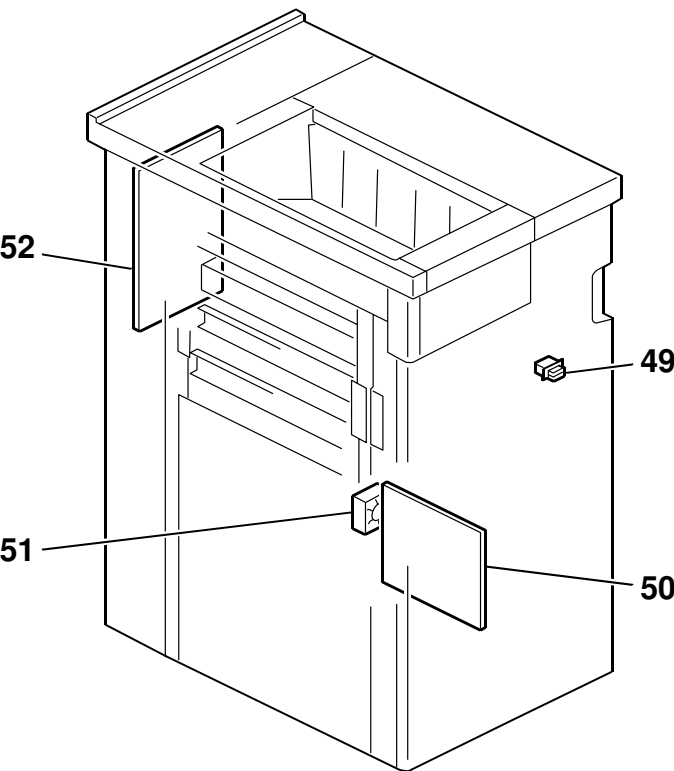
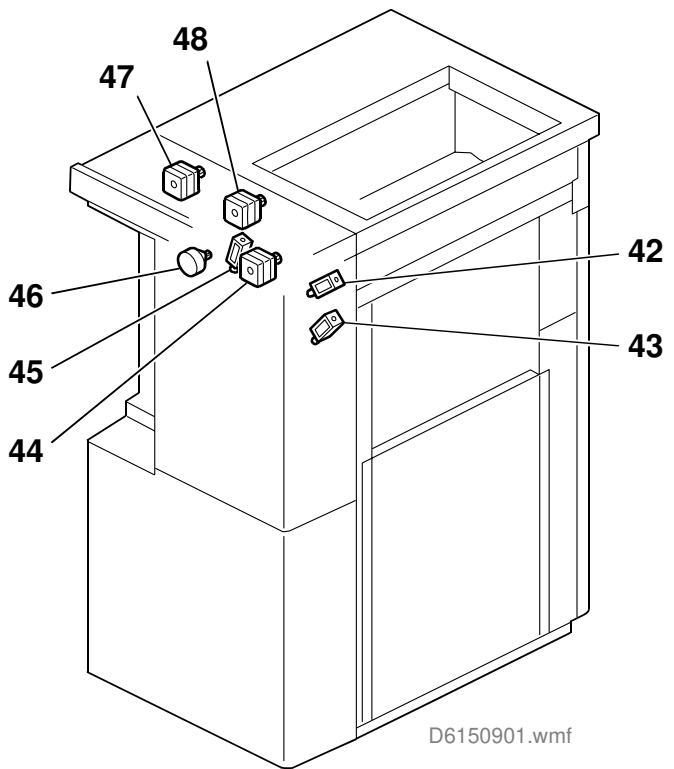
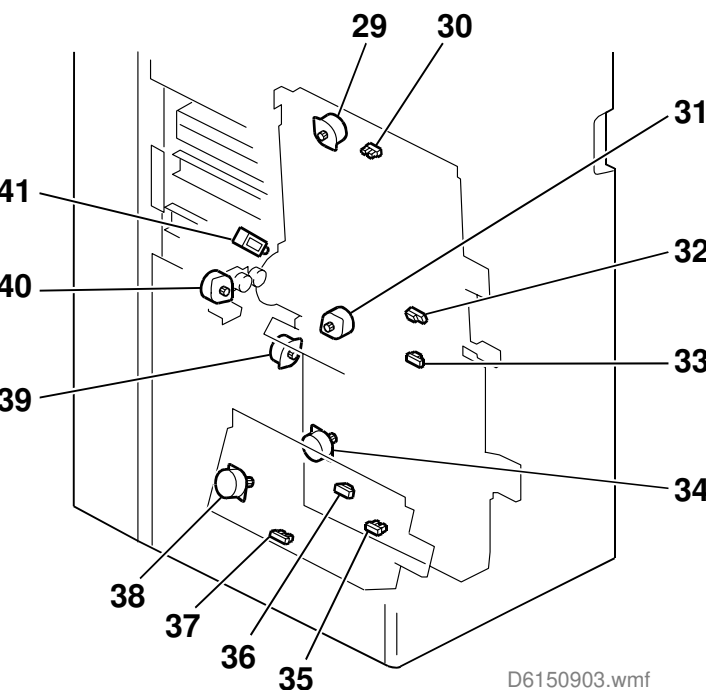
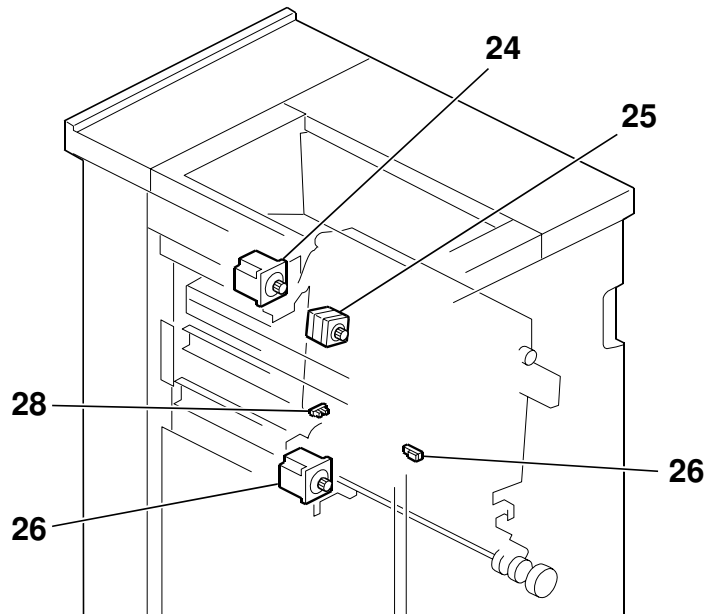
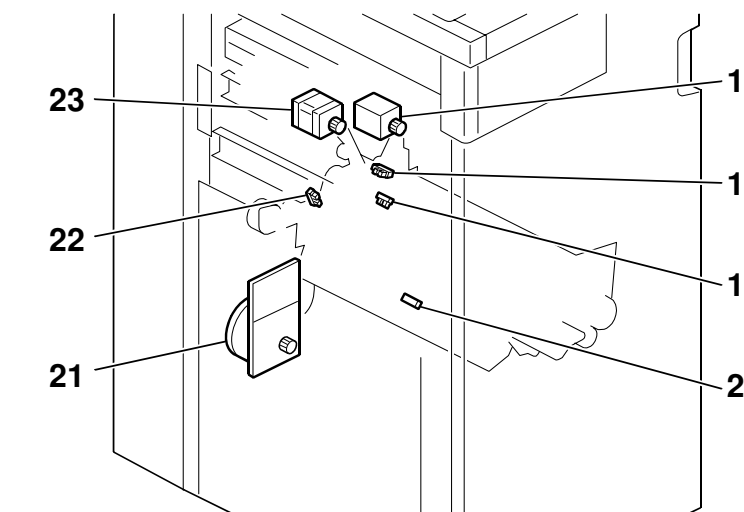
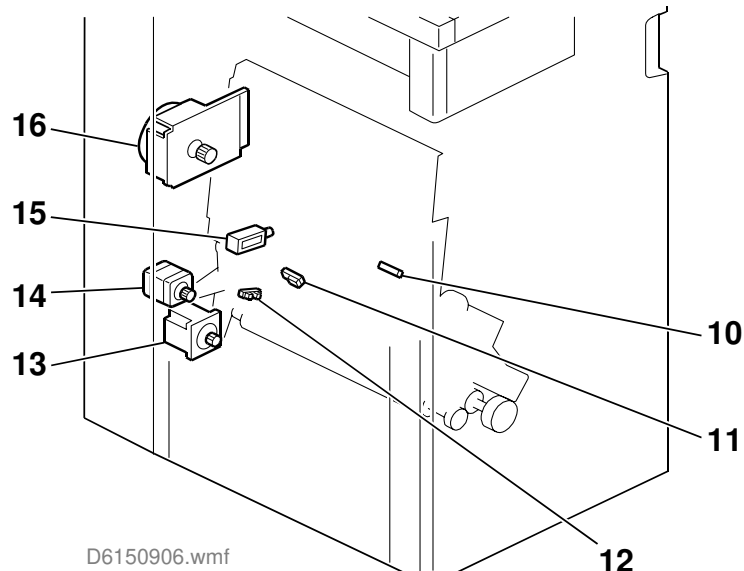
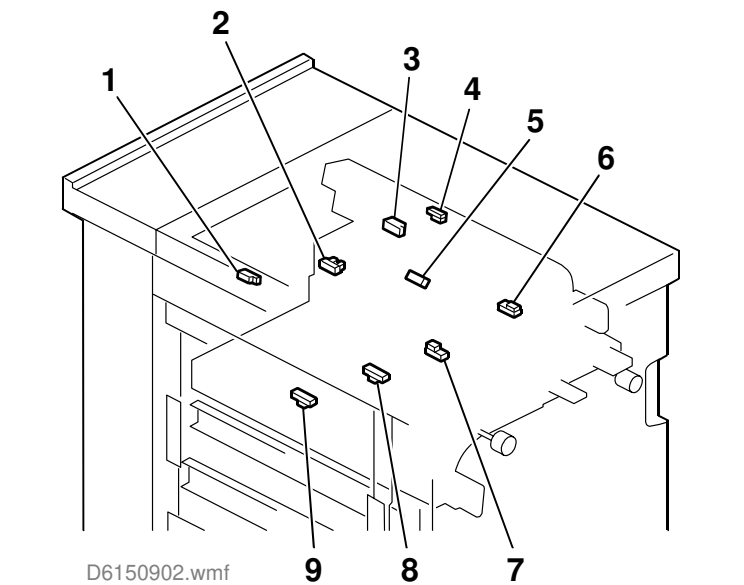
MULTI FOLDING UNIT (D615) POINT TO POINT DIAGRAM (1/2)



1	2	3	4	5	6	7	8	9
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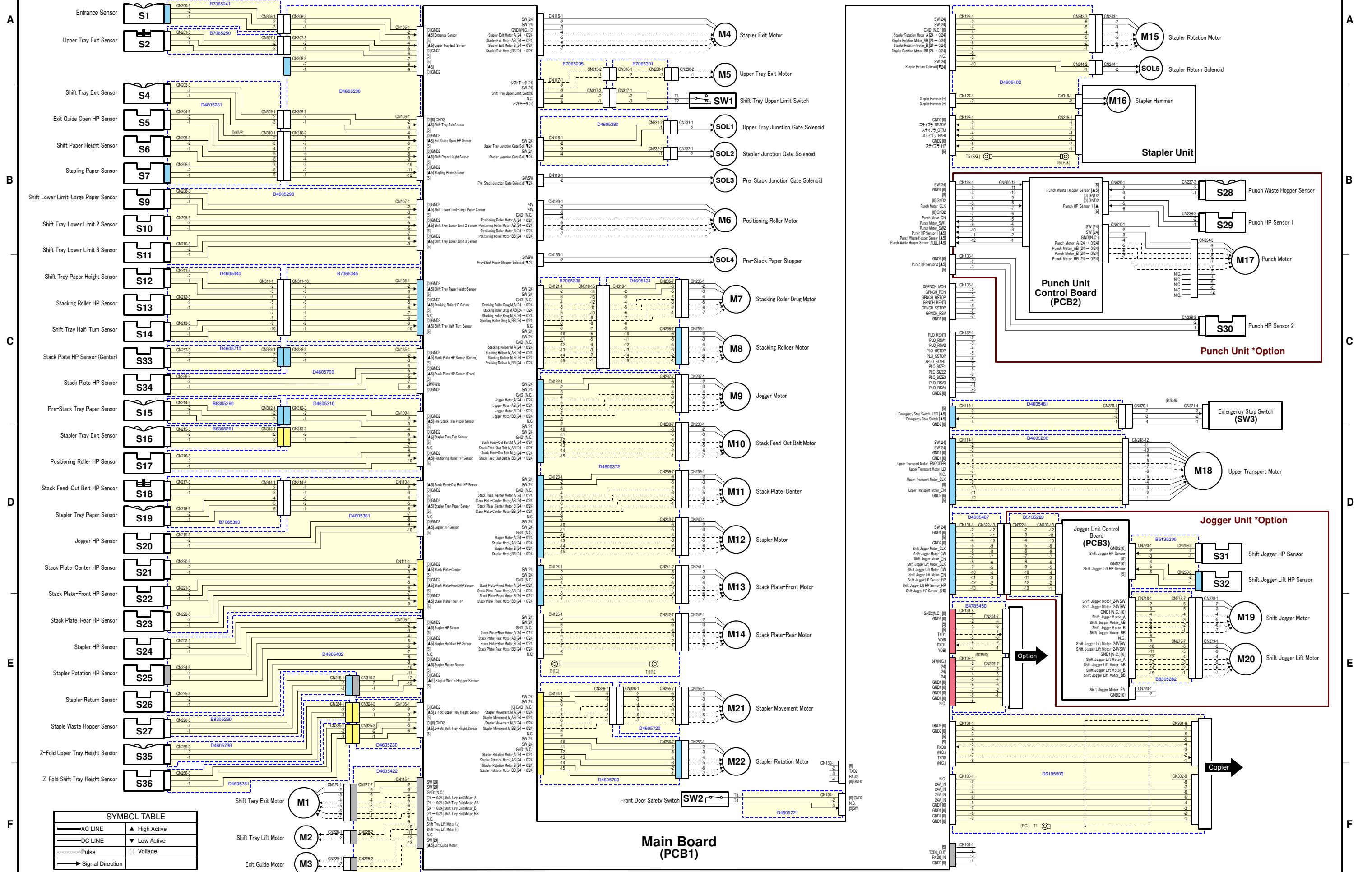


MULTI FOLDING UNIT (D615) ELECTRICAL COMPONENT LAYOUT

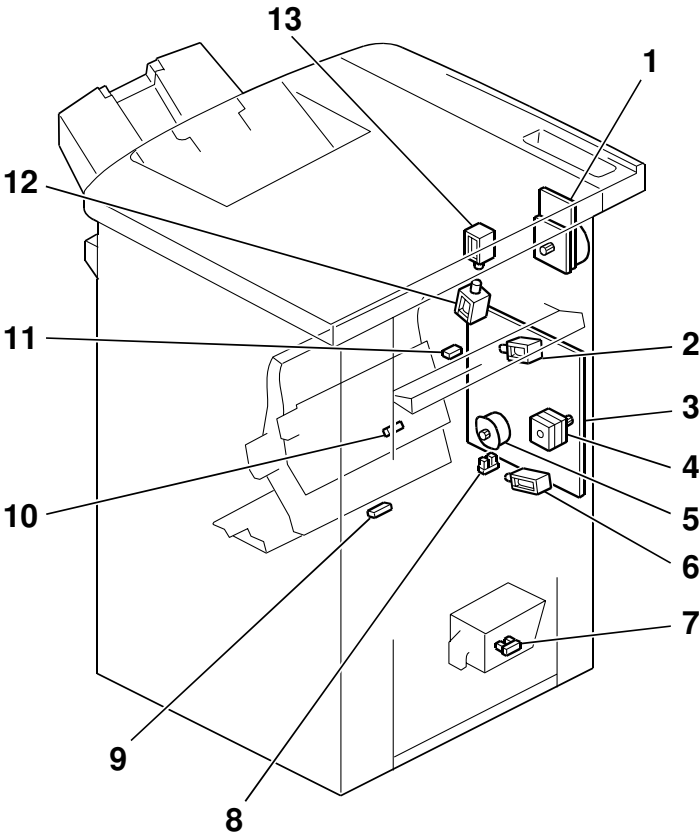


Symbol	Index No.	Description	P to P	Page
Sensors				
S1	37	Stopper 3 HP Sensor	C1	1/2
S2	36	Stopper 3 Paper Sensor	C1	1/2
S3	10	Bypass Entrance Paper Sensor	C1	1/2
S4	11	Bypass Exit Paper Sensor	C1	1/2
S5	30	Stopper 2 HP Sensor	C1-D1	1/2
S6	32	Stopper 2 Paper Sensor	D1	1/2
S7	22	Direct-Send JG HP Sensor	D1	1/2
S8	19	Fold Plate HP Sensor	D1	1/2
S9	28	Dynamic Roller HP Sensor	D1-E1	1/2
S10	12	Registration Roller HP Sensor	E1	1/2
S11	26	Registration Sensor	E1	1/2
S12	20	FM6 Pawl HP Sensor	E1	1/2
S13	18	Jogger Fence HP Sensor	E1	1/2
S14	35	Stopper 1 HP Sensor	F1	1/2
S15	33	Stopper 1 Paper Sensor	F1	1/2
S17	4	Top Tray Exit Sensor	C6	1/2
S18	6	Entrance Sensor	C6	1/2
S19	2	Entrance JG HP Sensor	C6	1/2
S20	7	Horizontal Path Paper Sensor	C6	1/2
S21	5	Top Tray Paper Path Sensor	C6-D6	1/2
S22	3	Top Tray Full Sensor (E)	D6	1/2
S23	1	Top Tray Full Sensor (R)	D6	1/2
S24	9	Horizontal Path Exit Sensor	E6	1/2
S25	8	Vertical Path Paper Sensor	E6	1/2
Motors				
M1	46	Entrance JG Motor	A4	2/2
M2	44	Top Tray Transport Motor	A4	2/2
M3	47	Horizontal Transport Motor	B4	2/2
M4	48	Top Tray Exit Motor	B4	2/2
M5	21	1st Fold Motor	E8	2/2
M6	31	Jogger Fence Motor	D4	2/2
M7	39	Positioning Roller Motor	D4	2/2
M8	34	Stopper 1 Motor	D4	2/2
M9	27	Fold Plate Motor	E4	2/2
M10	17	Registration Roller Release Motor	E4	2/2
M11	24	Dynamic Roller Lift Motor	A8	2/2
M12	29	Stopper 2 Motor	A8	2/2
M13	25	Dynamic Roller Transport	B8	2/2
M14	23	Registration Roller Transport Motor	B8	2/2
M15	40	Direct-Send JG Motor	B8	2/2
M16	14	FM6 Pawl Motor	C8	2/2
M17	38	Stopper 3 Motor	C8	2/2
M18	13	2nd Fold Motor	D8	2/2
M19	16	Crease Motor	D8	2/2
M20	51	PSU Fan Motor	A8	1/2
PCBs				
PCB1	52	Main Board	F7,F4	1/2,2/2
PCB2	50	PSU	A7	1/2
Solenoids				
SOL1	45	Top Tray JG Solenoid	B4	2/2
SOL2	43	Exit JG Solenoid	B4	2/2
SOL3	42	Reverse JG Solenoid	C4	2/2
SOL4	41	LE Stop Pawl Solenoid	C4	2/2
SOL5	15	Bypass JG Solenoid	C4	2/2
Switch				
SW1	49	Front Door Switch	B7	1/2

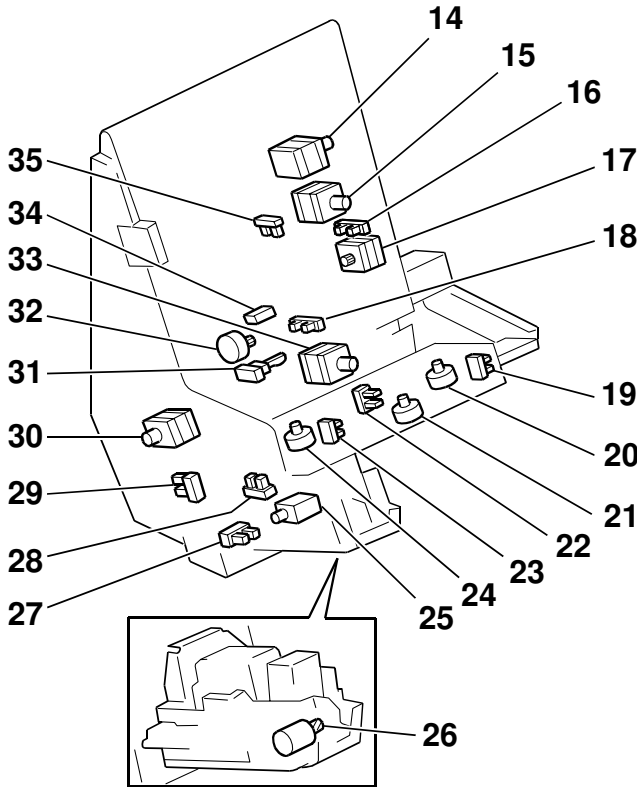
3000-SHEET FINISHER (D610) POINT TO POINT DIAGRAM



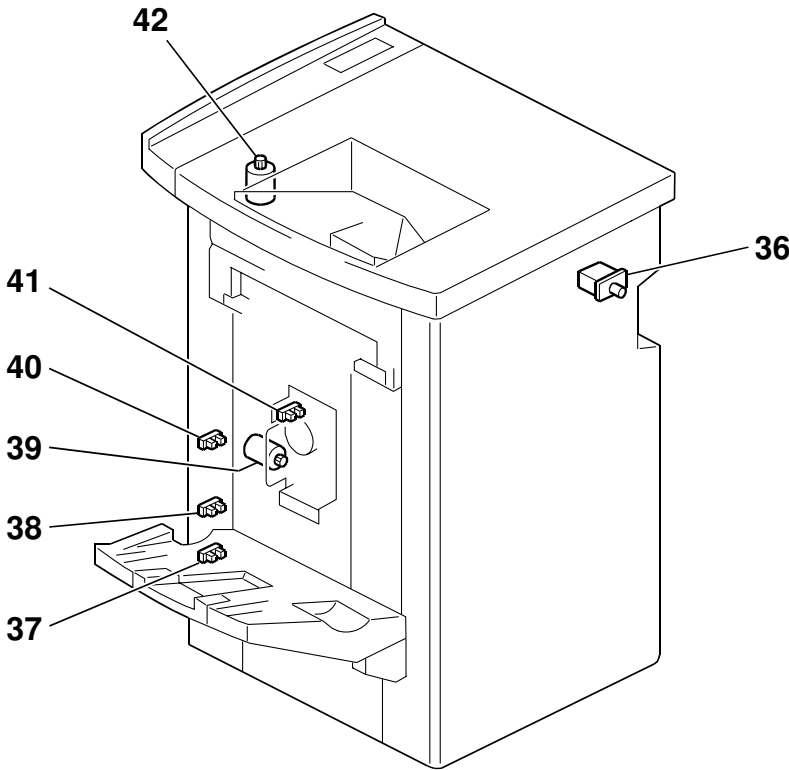
3000-SHEET FINISHER (D610) ELECTRICAL COMPONENT LAYOUT



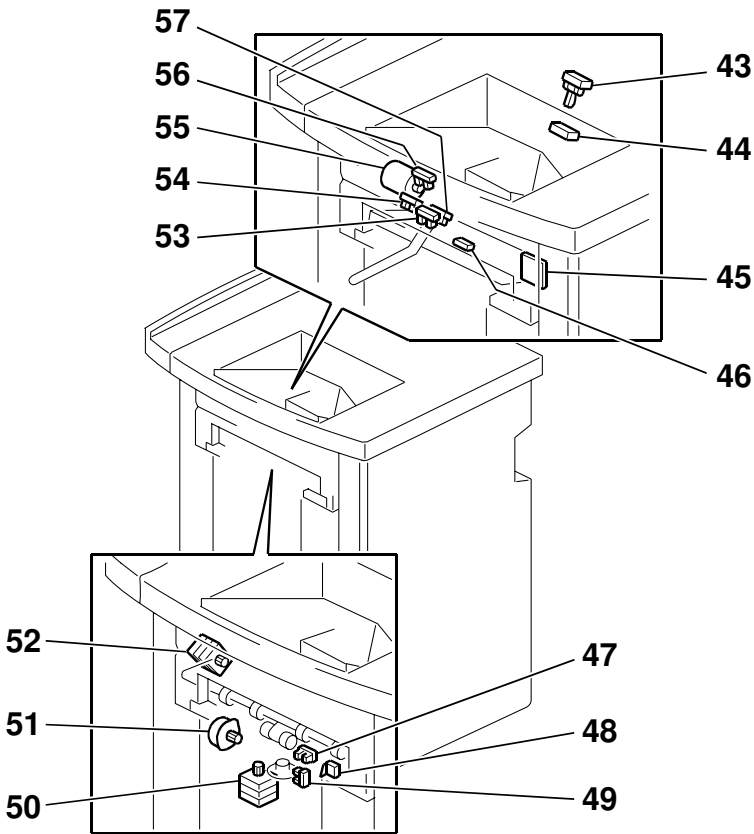
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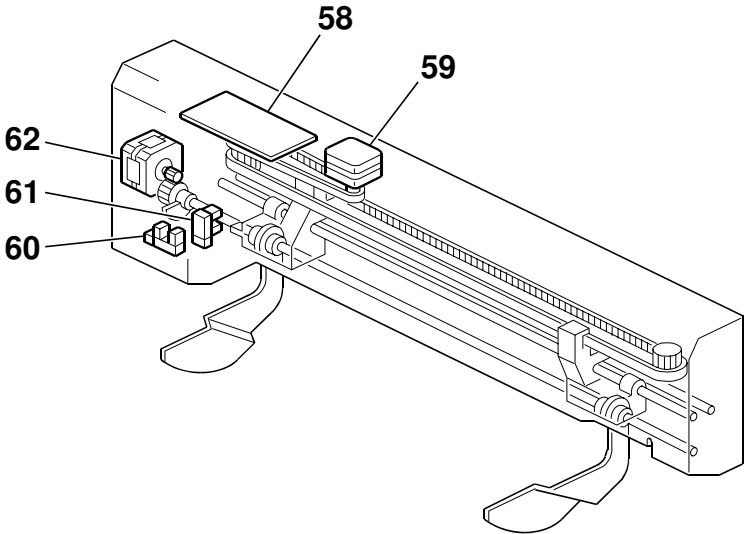
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D6100903.wmf

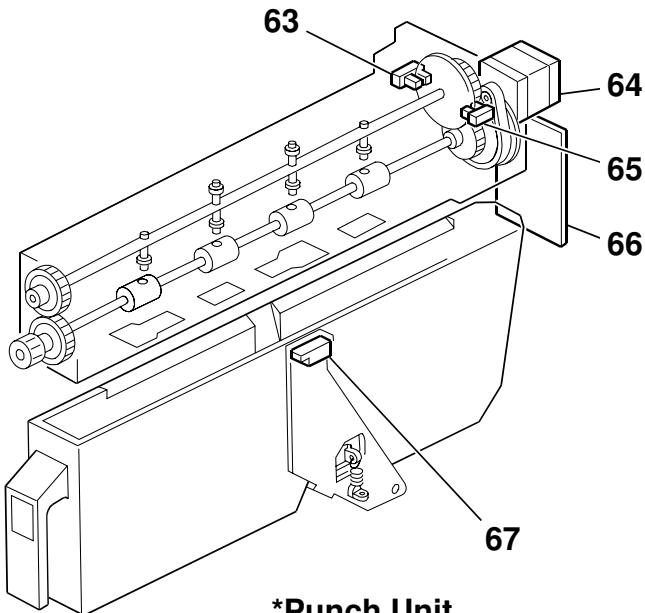


D6100904.wmf



*Jogger Unit
(Option)

D6100905.wmf



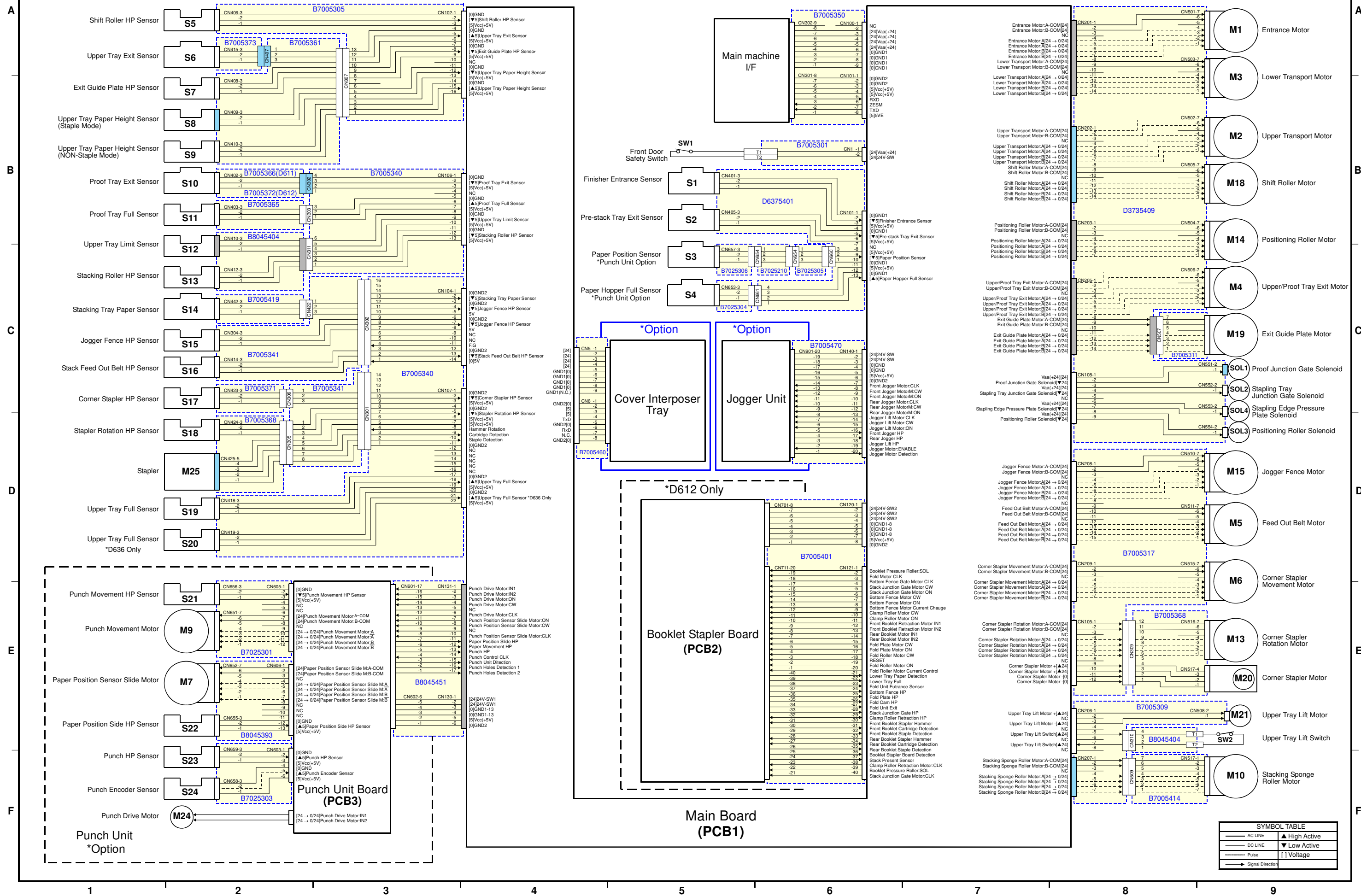
*Punch Unit
(Option)

D6100906.wmf

Symbol	Index No.	Description	P to P
Sensors			
S1	11	Entrance Sensor	A1
S2	43	Upper Tray Exit Sensor	A1
S4	46	Shift Tray Exit Sensor	B1
S5	56	Exit Guide Open HP Sensor	B1
S6	57	Shift Paper Height Sensor	B1
S7	53	Stapling Paper Sensor	B1
S9	40	Shift Lower Limit-Large Paper Sensor	B1
S10	38	Shift Tray Lower Limit 2 Sensor	B1
S11	37	Shift Tray Lower Limit 3 Sensor	B1
S12	47	Shift Tray Paper Height Sensor	C1
S13	49	Stacking Roller HP Sensor	C1
S14	41	Shift Tray Half-Turn Sensor	C1
S15	10	Pre-Stack Tray Paper Sensor	C1
S16	9	Stapler Tray Exit Sensor	D1
S17	8	Positioning Roller HP Sensor	D1
S18	31	Stack Feed-Out Belt HP Sensor	D1
S19	34	Stapler Tray Paper Sensor	D1
S20	35	Jogger HP Sensor	D1
S21	22	Stack Plate-Center HP Sensor	D1
S22	23	Stack Plate-Front HP Sensor	E1
S23	19	Stack Plate-Rear HP Sensor	E1
S24	29	Stapler HP Sensor	E1
S25	27	Stapler Rotation HP Sensor	E1
S26	28	Stapler Return Sensor	E1
S27	7	Staple Waste Hopper Sensor	E1
S28	67	Punch Waste Hopper Sensor	B9
S29	63	Punch HP Sensor 1	B9
S30	65	Punch HP Sensor 2	C9
S31	61	Shift Jogger HP Sensor	D9
S32	60	Shift Jogger Lift HP Sensor	D9
S33	18	Stack Plate HP Sensor (Center)	C1
S34	16	Stack Plate HP Sensor	C1
S35	44	Z-Fold Upper Tray Height Sensor	E1
S36	54	Z-Fold Shift Tray Height Sensor	F1

Symbol	Index No.	Description	P to P
Motors			
M1	52	Shift Tary Exit Motor	F2
M2	42	Shift Tray Lift Motor	F2
M3	55	Exit Guide Motor	F2
M4	4	Stapler Exit Motor	A5
M5	39	Upper Tray Exit Motor	A5
M6	5	Positioning Roller Motor	B5
M7	50	Stacking Roller Drug Motor	C5
M8	51	Stacking Rolloer Motor	C5
M9	15	Jogger Motor	C5
M10	14	Stack Feed-Out Belt Motor	D5
M11	21	Stack Plate-Center	D5
M12	33	Stapler Motor	D5
M13	24	Stack Plate-Front Motor	D5
M14	20	Stack Plate-Rear Motor	E5
M15	30	Stapler Rotation Motor	A8
M16	26	Stapler Return Solenoid	B8
M17	64	Punch Motor	C9
M18	1	Upper Transport Motor	D9
M19	59	Shift Jogger Motor	E9
M20	62	Shift Jogger Lift Motor	E9
M21	32	Stapler Movement Motor	E5
M22	17	Stapler Rotation Motor	F5
PCB			
PCB1	3	Main Board	F5
PCB2	66	Punch Unit Control Board	C8
PCB3	58	Jogger Unit Control Board	D8
Solenoids			
SOL1	13	Upper Tray Junction Gate Solenoid	B5
SOL2	12	Stapler Junction Gate Solenoid	B5
SOL3	2	Pre-Stack Junction Gate Solenoid	B5
SOL4	6	Pre-Stack Paper Stopper	C5
SOL5	25	Stapler Return Solenoid	A8
Switches			
SW1	48	Shift Tray Upper Limit Switch	B5
SW2	36	Front Door Safety Switch	F5
SW3	45	Emergency Stop Switch	C9

2000/3000 SHEET FINISHER (D611/D612) POINT TO POINT DIAGRAM (1/2)



2000/3000 SHEET FINISHER (D611/D612) POINT TO POINT DIAGRAM (2/2)

A

B

C

D

E

F

A

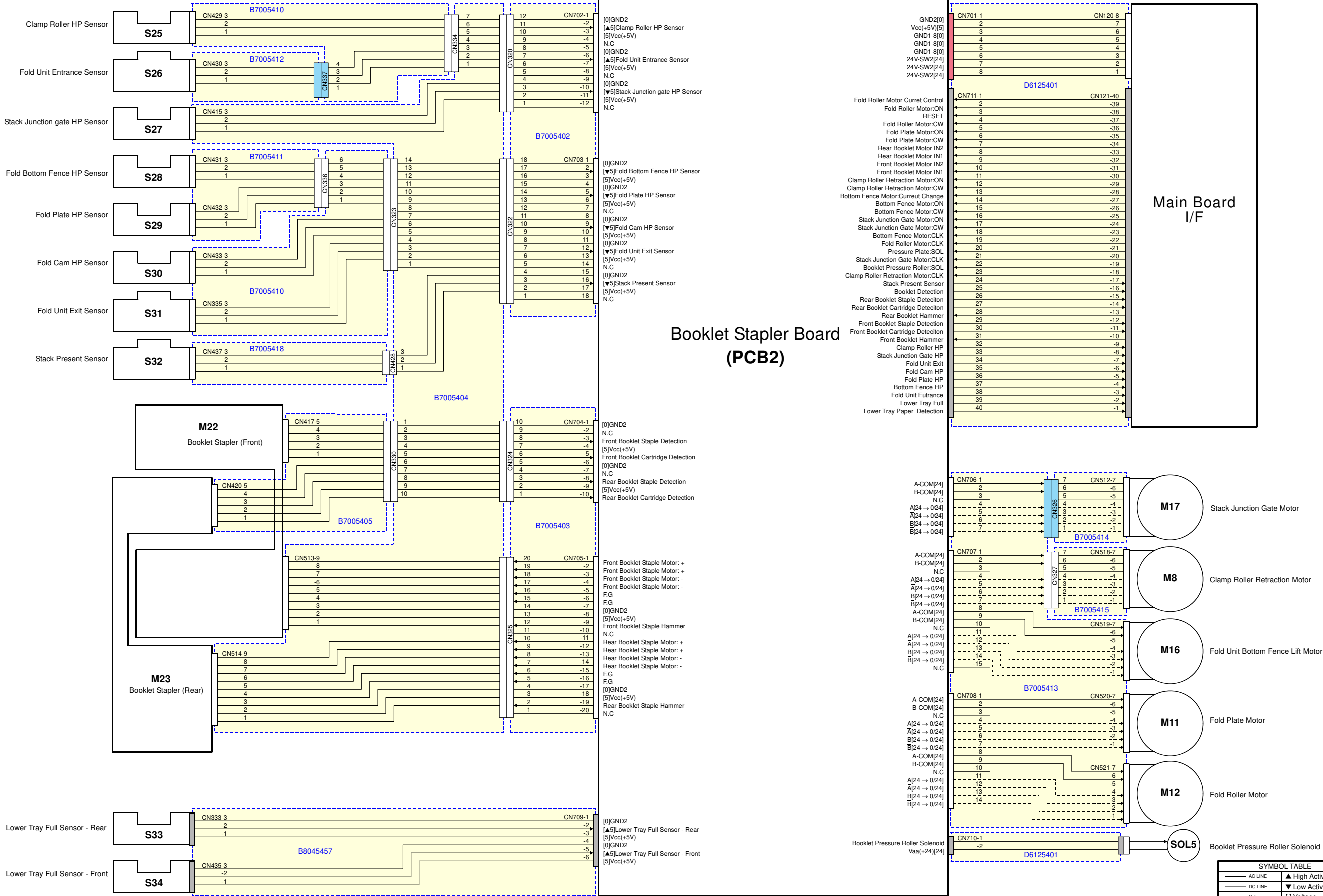
B

C

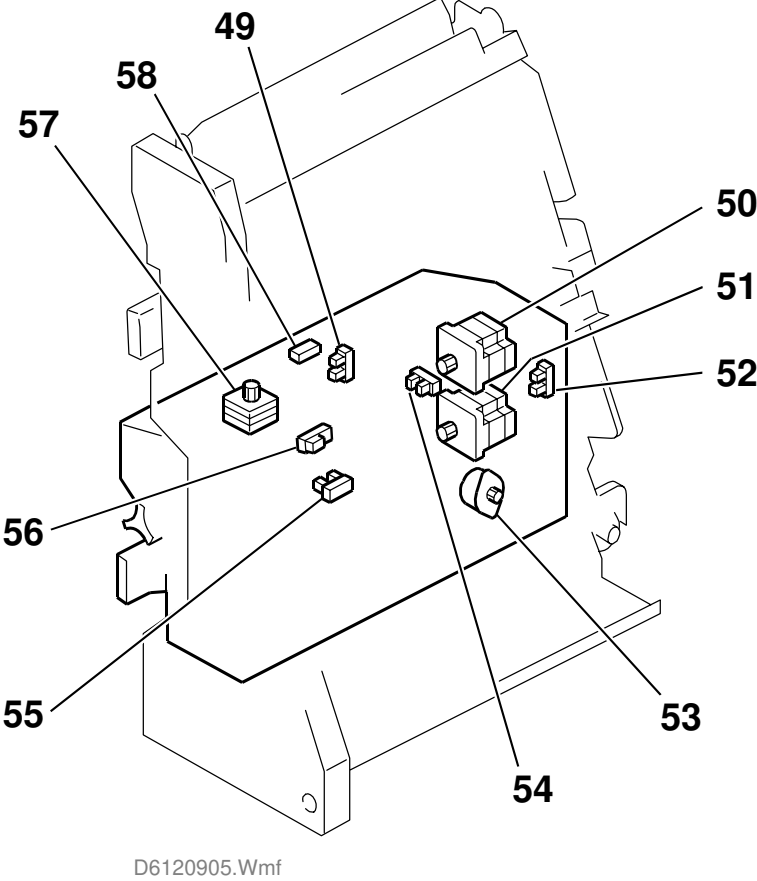
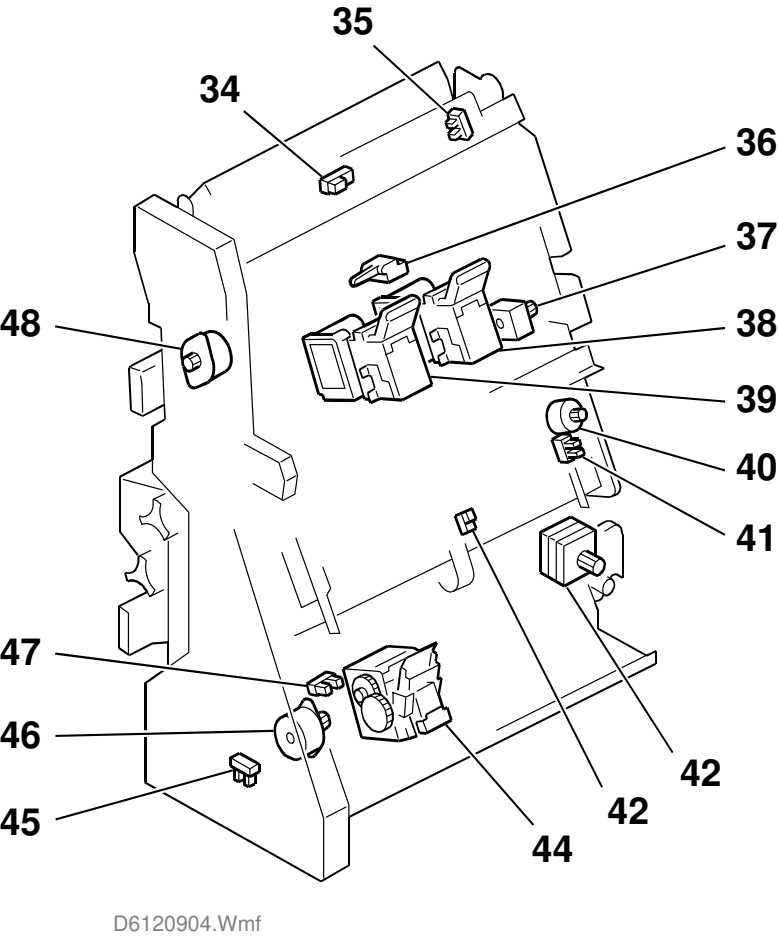
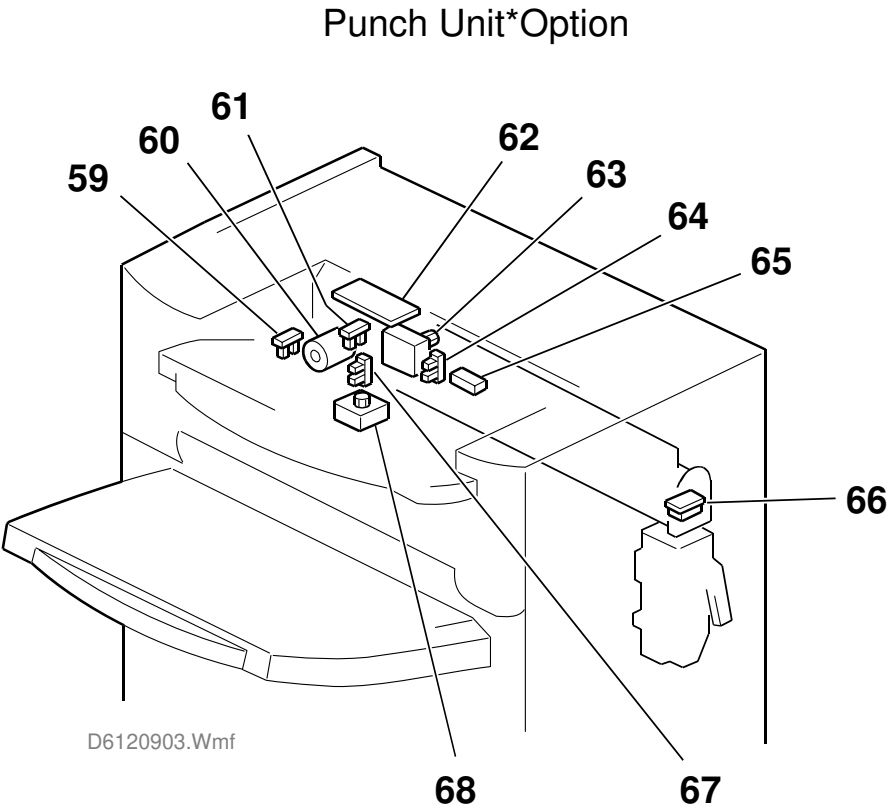
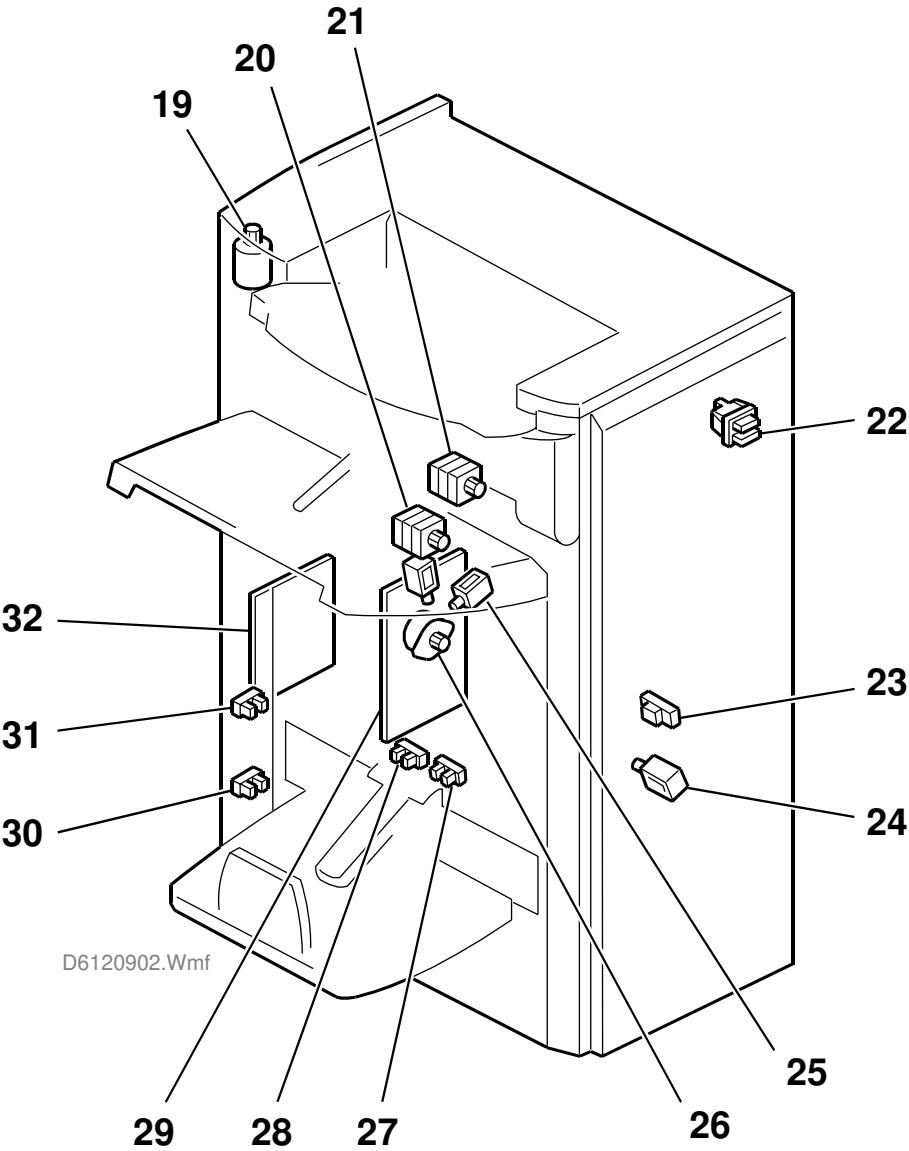
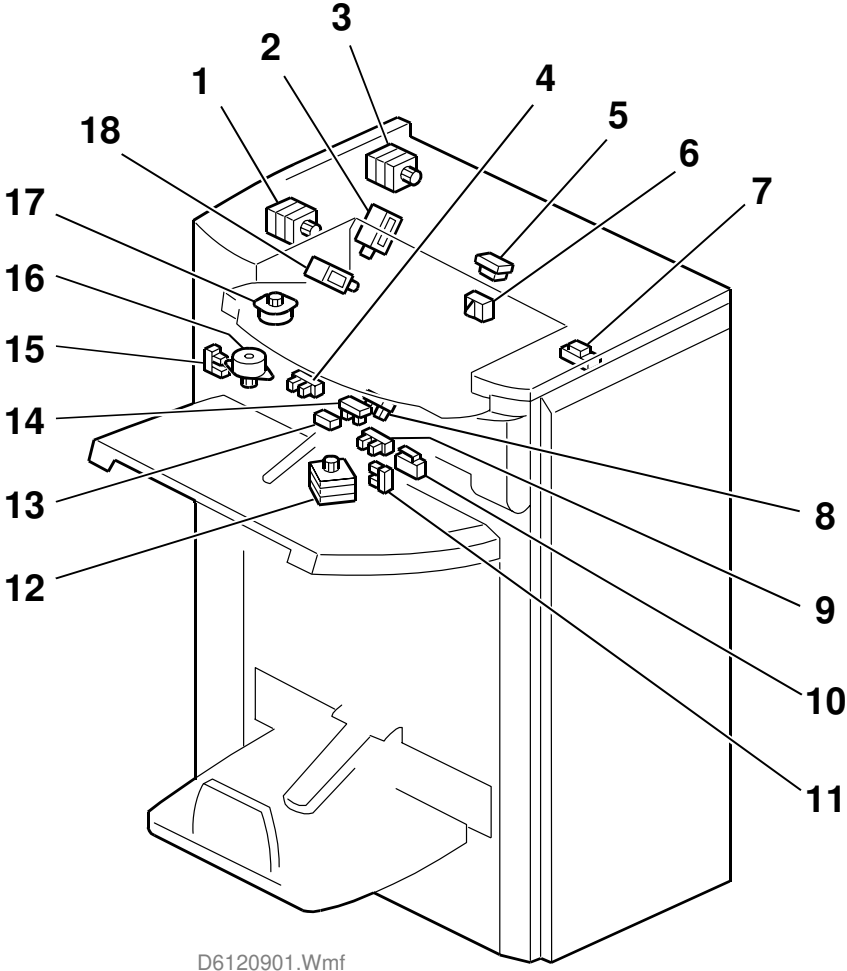
D

E

F



2000/3000 SHEET FINISHER (D611/D612) ELECTRICAL COMPONENT LAYOUT 1/2



2000/3000 SHEET FINISHER (D611/D612) ELECTRICAL COMPONENT LAYOUT 2/2

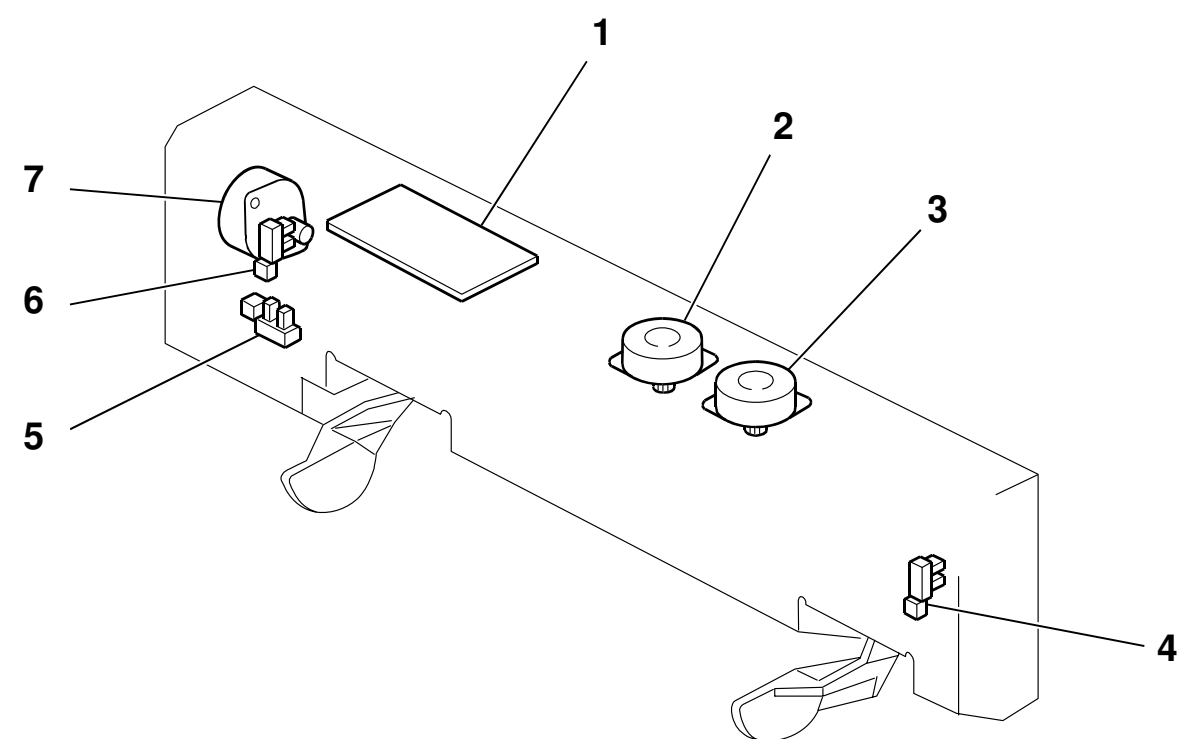
Symbol	Index No.	Description	P to P	Page
Sensors				
S1	7	Finisher Entrance Sensor	B6	1/2
S2	23	Pre-stack Tray Exit Sensor	C6	1/2
S3	65	Paper Position Sensor	C6	1/2
S4	66	Punch Hopper Full Sensor	C6	1/2
S5	15	Shift Roller HP Sensor	A2	1/2
S6	13	Upper Tray Exit Sensor	A2	1/2
S7	4	Exit Guide Plate HP Sensor	B2	1/2
S8	14	Upper Tray Paper Height Sensor (Staple Mode)	B2	1/2
S9	8	Upper Tray Paper Height Sensor (Non-Staple Mode)	B2	1/2
S10	5	Proof Tray Exit Sensor	B2	1/2
S11	6	Proof Tray Full Sensor	C2	1/2
S12	9	Upper Tray Limit Sensor	C2	1/2
S13	11	Stacking Roller HP Sensor	C2	1/2
S14	43	Stapling Tray Paper Sensor	C2	1/2
S15	41	Jogger Fence HP Sensor	C2	1/2
S16	36	Stack Feed-Out Belt HP Sensor	D2	1/2
S17	46	Corner Stapler HP Sensor	D2	1/2
S18	47	Stapler Rotation HP Sensor	D2	1/2
S19	31	Upper Tray Full Sensor	E2	1/2
S20	30	Upper Tray Full Sensor (D636)	E2	1/2
S21	67	Punch Movement HP Sensor	E2	1/2
S22	64	Paper Position Side HP Sensor	F2	1/2
S23	61	Punch HP Sensor	G2	1/2
S24	59	Punch Encoder Sensor	G2	1/2
S25	49	Clamp Roller HP Sensor	A2	2/2
S26	56	Fold Unit Entrance Sensor	B2	2/2
S27	35	Stack Junction Gate HP Sensor	B2	2/2
S28	55	Fold Bottom Fence HP Sensor	B2	2/2
S29	52	Fold Plate HP Sensor	C2	2/2
S30	54	Fold Cam HP Sensor	C2	2/2
S31	58	Fold Unit Exit Sensor	C2	2/2
S32	34	Stack Present Sensor	D2	2/2
S33	28	Lower Tray Full Sensor - Rear	G2	2/2
S34	27	Lower Tray Full Sensor - Front	G2	2/2
Solenoids				
SOL1	18	Proof Junction Gate Solenoid	D10	1/2
SOL2	2	Stapling Tray Junction Gate	D10	1/2
SOL3	25	Positioning Roller Solenoid	D10	1/2
SOL4	24	Stapling Edge Pressure Plate Solenoid	D10	1/2
SOL5	33	Booklet Pressure Roller	G9	2/2
Switchs				
SW1	22	Front Door Safety Switch	B6	1/2
SW2	10	Upper Tray Limit SW	F10	1/2

Symbol	Index No.	Description	P to P	Page
PCBs				
PCB1	29	Main Board	G6	1/2
PCB2	32	Booklet Stapler Board	D6	2/2
PCB3	62	Punch Unit Board	G3	1/2
Motors				
M1	21	Entrance Motor	A10	1/2
M2	3	Upper Transport Motor	B10	1/2
M3	20	Lower Transport Motor	A10	1/2
M4	1	Upper/Proof Tray Exit Motor	B10	1/2
M5	37	Feed Out Belt Motor	E10	1/2
M6	42	Corner Stapler Movement Motor	E10	1/2
M7	63	Paper Position Sensor Slide Motor	F2	1/2
M8	57	Clamp Roller Retraction Motor	E9	2/2
M9	68	Punch Movement Motor	F2	1/2
M10	12	Stacking Sponge Roller Motor	G10	1/2
M11	51	Fold Plate Motor	F9	2/2
M12	50	Fold Roller Motor	G9	2/2
M13	45	Corner Stapler Rotation Motor	F10	1/2
M14	26	Positioning Roller Motor	B10	1/2
M15	40	Jogger Fence Motor	D10	1/2
M16	53	Fold Unit Bottom Fence Lift Motor	F9	2/2
M17	48	Stack Junction Gate Motor	E9	2/2
M18	16	Shift Roller Motor	B10	1/2
M19	17	Exit Guide Plate Motor	B10	1/2
M20	44	Corner Stapler	F10	1/2
M21	19	Upper Tray Lift Motor	F10	1/2
M22	39	Booklet Stapler - Front	D2	1/2
M23	38	Booklet Stapler - Rear	F2	1/2
M24	60	Punch Drive Motor	G2	1/2
M25	44	Stapler	D2	1/2

[illegible]

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

OUTPUT LOGGER UNIT (B703) ELECTRICAL COMPONENT LAYOUT

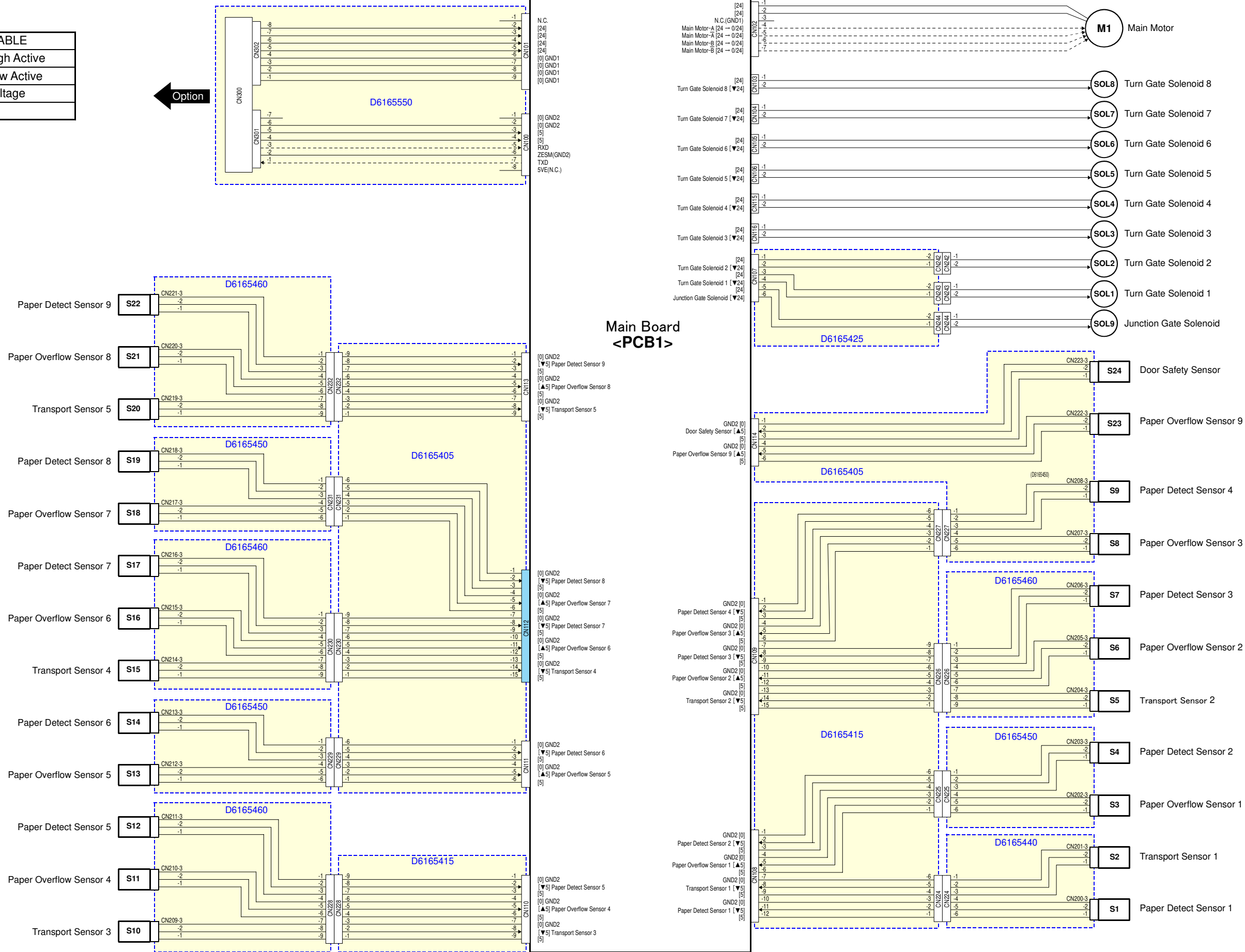


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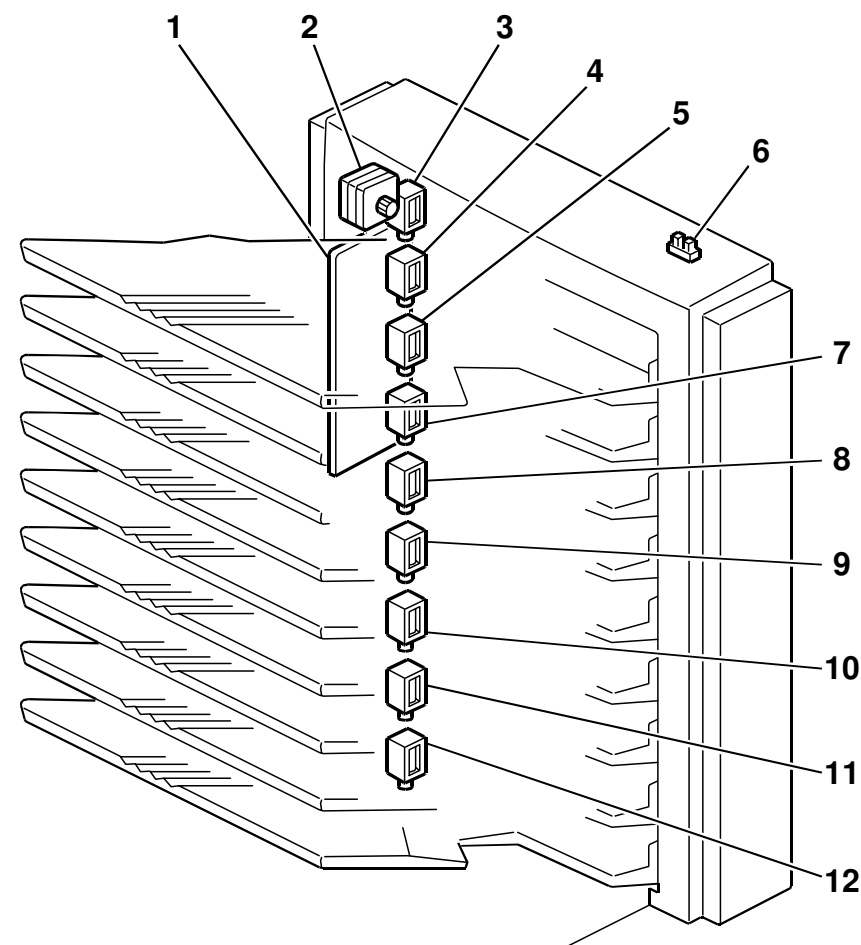
Symbol	Index No.	Description	P to P
Sensors			
S1	4	Shift Jogger HP Sensor (Front)	A7-B7
S2	6	Shift Jogger HP Sensor (Rear)	B7
S3	5	Shift Jogger Lift HP Sensor	C7
Motors			
M1	3	Shift Jogger Motor (Front)	C8-D8
M2	2	Shift Jogger Motor (Rear)	D8
M3	7	Shift Jogger Lift Motor	E8
PCB			
PCB1	1	Jogger Unit Control Board	C4

9-BIN MAILBOX (D616) POINT TO POINT DIAGRAM

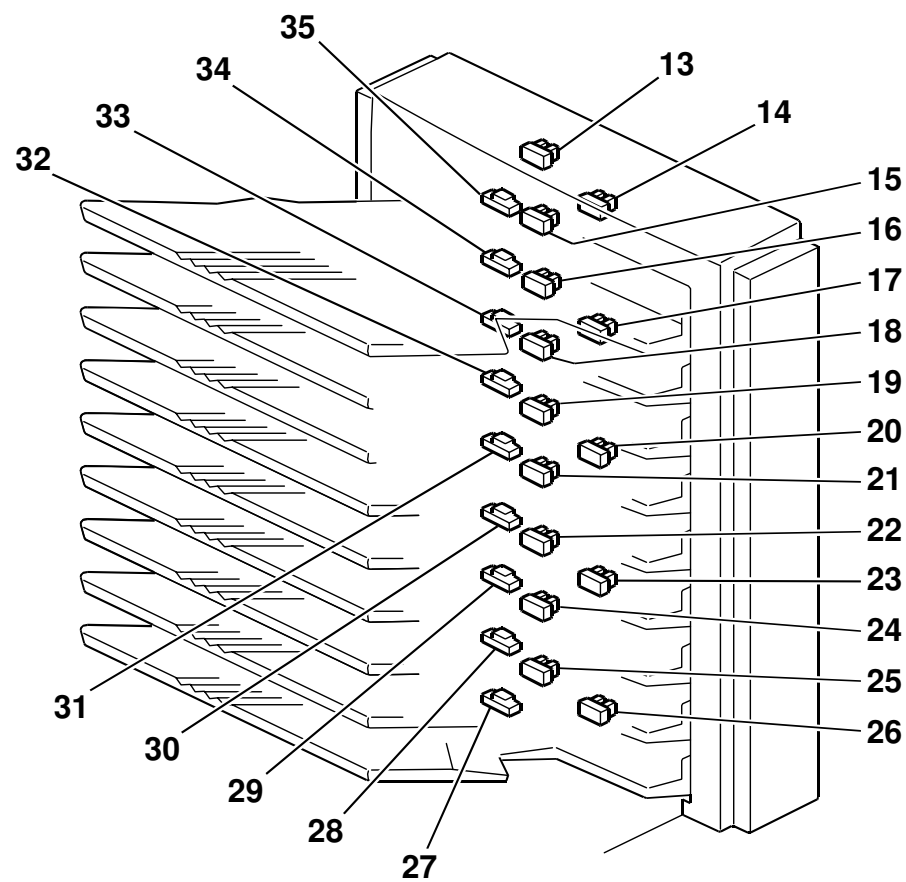
SYMBOL TABLE	
	AC LINE
	DC LINE
	Pulse
	Signal Direction
	▲ High Active
	▼ Low Active
	[] Voltage



9-BIN MAIL BOX (D616) ELECTRICAL COMPONENT LAYOUT



D6160901.wmf



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Symbol	Index No.	Description	P to P
Sensors			
S1	35	Paper Detect Sensor 1	F8
S2	26	Transport Sensor 1	E8
S3	13	Paper Overflow Sensor 1	E8
S4	34	Paper Detect Sensor 2	E8
S5	23	Transport Sensor 2	E8
S6	15	Paper Overflow Sensor 2	D8
S7	33	Paper Detect Sensor 3	D8
S8	16	Paper Overflow Sensor 3	D8
S9	32	Paper Detect Sensor 4	D8
S10	20	Transport Sensor 3	F2
S11	18	Paper Overflow Sensor 4	F2
S12	31	Paper Detect Sensor 5	E2
S13	19	Paper Overflow Sensor 5	E2
S14	30	Paper Detect Sensor 6	E2
S15	17	Transport Sensor 4	D2
S16	21	Paper Overflow Sensor 6	D2
S17	29	Paper Detect Sensor 7	D2
S18	22	Paper Overflow Sensor 7	D2
S19	28	Paper Detect Sensor 8	C2
S20	14	Transport Sensor 5	C2
S21	24	Paper Overflow Sensor 8	C2
S22	27	Paper Detect Sensor 9	C2
S23	25	Paper Overflow Sensor 9	C8
S24	6	Door Safety Sensor	C8
Motor			
M1	2	Main Motor	A8
PCB			
PCB1	1	Main Board	C5
Solenoids			
SOL1	3	Turn Gate Solenoid 1	C8
SOL2	4	Turn Gate Solenoid 2	B8
SOL3	5	Turn Gate Solenoid 3	B8
SOL4	7	Turn Gate Solenoid 4	B8
SOL5	8	Turn Gate Solenoid 5	B8
SOL6	9	Turn Gate Solenoid 6	B8
SOL7	10	Turn Gate Solenoid 8	B8
SOL8	11	Turn Gate Solenoid 8	B8
SOL9	12	Junction Gate Solenoid	C8