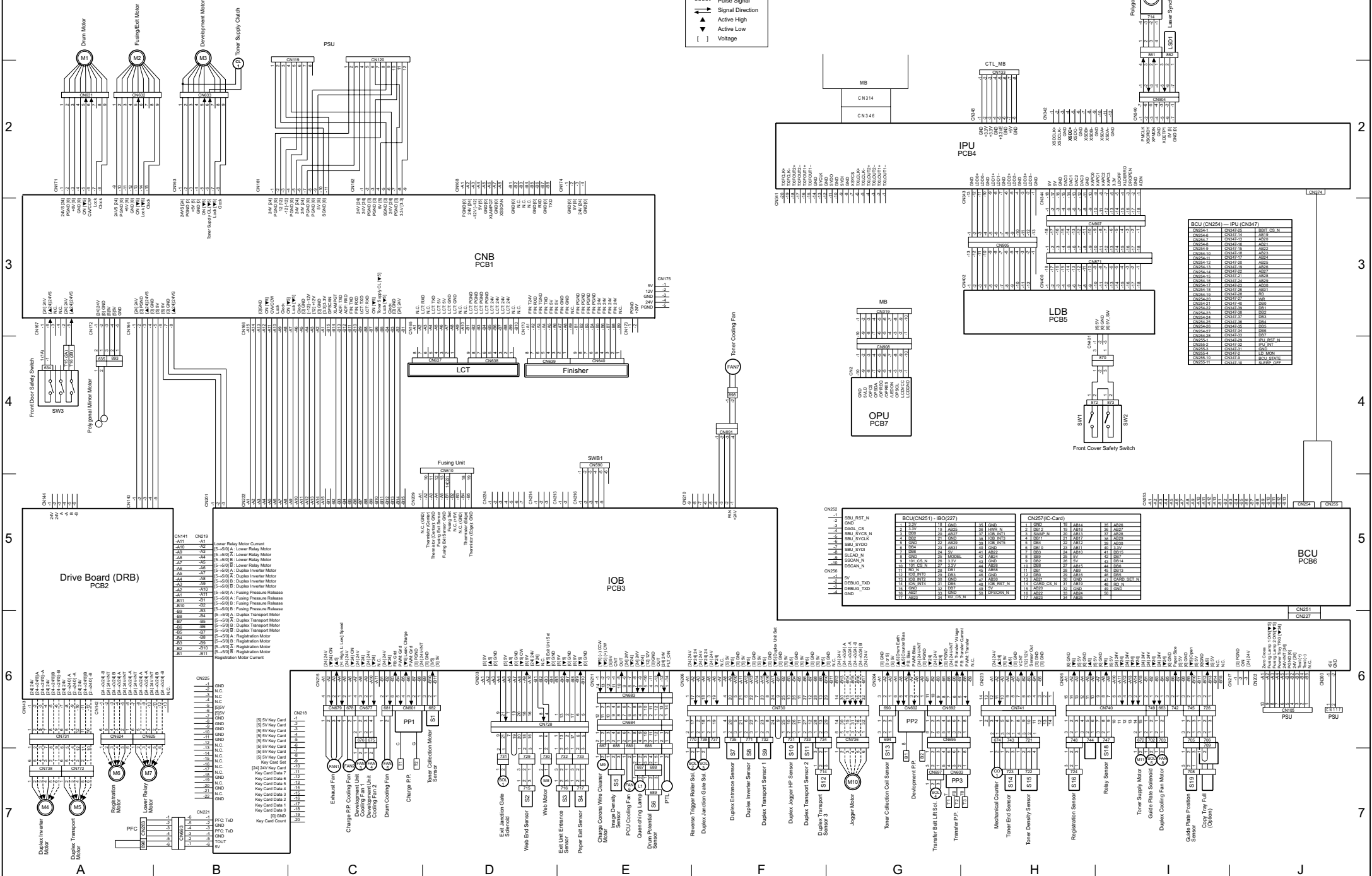
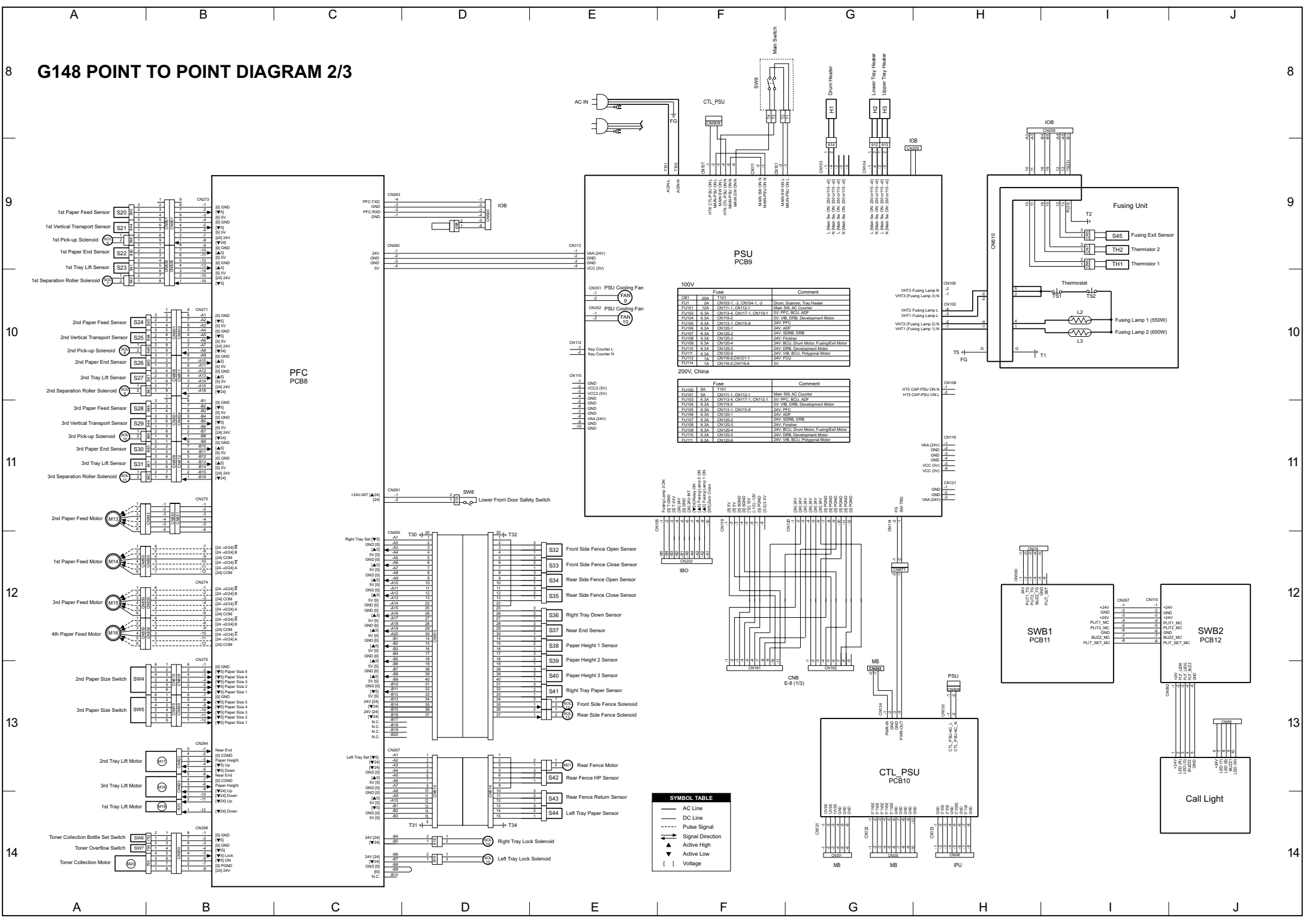


G148 POINT TO POINT DIAGRAM 1/3

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



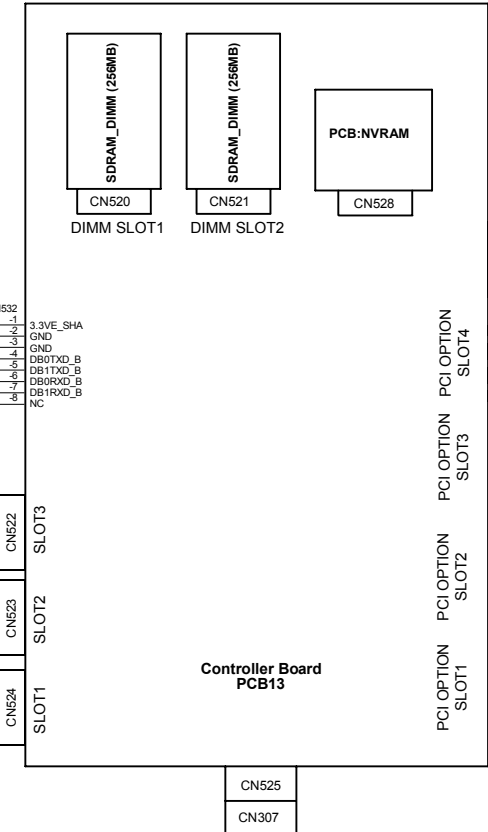


G148 POINT TO POINT DIAGRAM 3/3

CN520 (CN521)		
Pin#	Signal Name	Pin#
1	GND	1
2	GND	2
3	GND	3
4	MDQ32	4
5	MDQ32	5
6	MDQ32	6
7	MDQ32	7
8	MDQ32	8
9	MDQ32	9
10	MDQ32	10
11	MDQ32	11
12	MDQ32	12
13	MDQ32	13
14	MDQ32	14
15	MDQ32	15
16	MDQ32	16
17	MDQ32	17
18	MDQ32	18
19	MDQ32	19
20	MDQ32	20
21	MDQ32	21
22	MDQ32	22
23	MDQ32	23
24	MDQ32	24
25	MDQ32	25
26	MDQ32	26
27	MDQ32	27
28	MDQ32	28
29	MDQ32	29
30	MDQ32	30
31	MDQ32	31
32	MDQ32	32
33	MDQ32	33
34	MDQ32	34
35	MDQ32	35
36	MDQ32	36
37	MDQ32	37
38	MDQ32	38
39	MDQ32	39
40	MDQ32	40

CN528		
Pin#	Signal Name	Pin#
1	GND	1
2	GND	2
3	GND	3
4	GND	4
5	GND	5
6	GND	6
7	GND	7
8	GND	8
9	GND	9
10	GND	10
11	GND	11
12	GND	12
13	GND	13
14	GND	14
15	GND	15
16	GND	16
17	GND	17
18	GND	18
19	GND	19
20	GND	20
21	GND	21
22	GND	22
23	GND	23
24	GND	24
25	GND	25
26	GND	26
27	GND	27
28	GND	28
29	GND	29
30	GND	30

CN530		
Pin#	Signal Name	Pin#
1	GND	1
2	GND	2
3	GND	3
4	GND	4
5	GND	5
6	GND	6
7	GND	7
8	GND	8
9	GND	9
10	GND	10
11	GND	11
12	GND	12
13	GND	13
14	GND	14
15	GND	15
16	GND	16
17	GND	17
18	GND	18
19	GND	19
20	GND	20
21	GND	21
22	GND	22
23	GND	23
24	GND	24
25	GND	25



CN525		
Pin#	Signal Name	Pin#
1	GND	1
2	GND	2
3	GND	3
4	GND	4
5	GND	5
6	GND	6
7	GND	7
8	GND	8
9	GND	9
10	GND	10
11	GND	11
12	GND	12
13	GND	13
14	GND	14
15	GND	15
16	GND	16
17	GND	17
18	GND	18
19	GND	19
20	GND	20

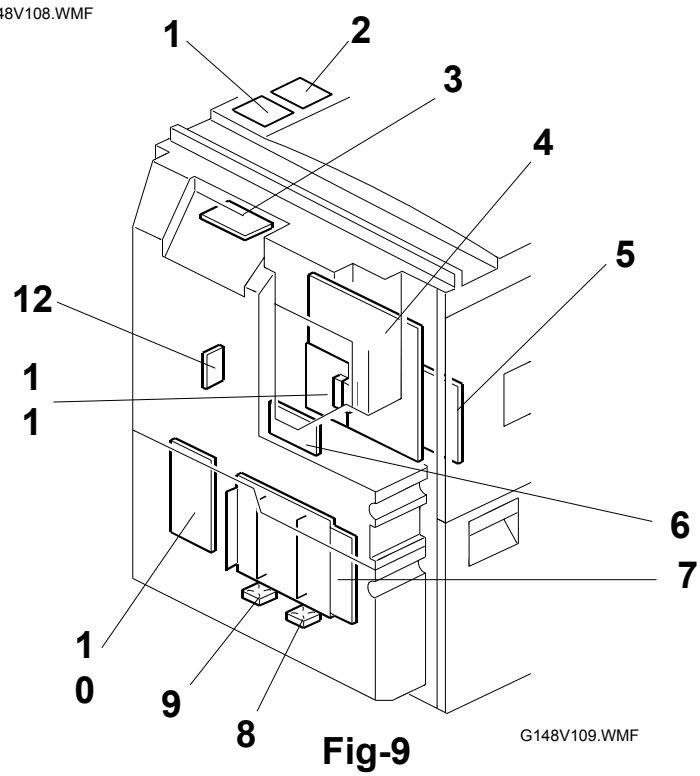
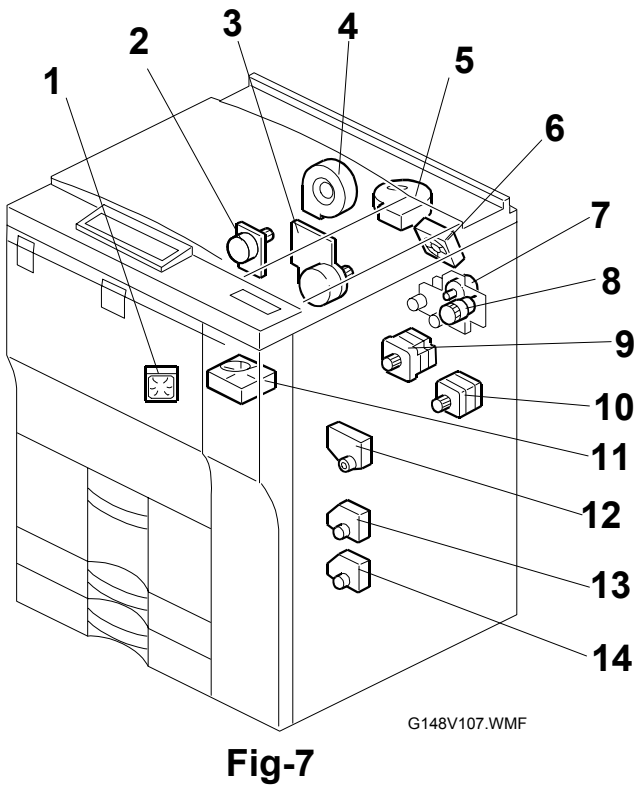
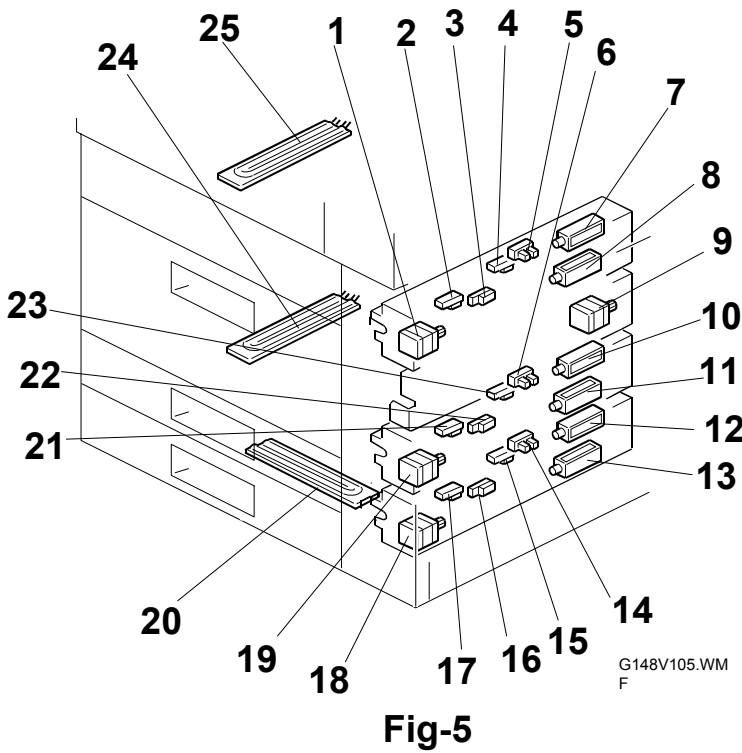
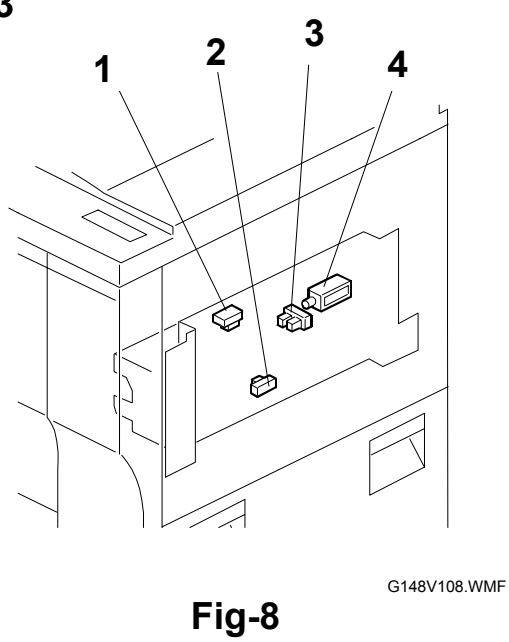
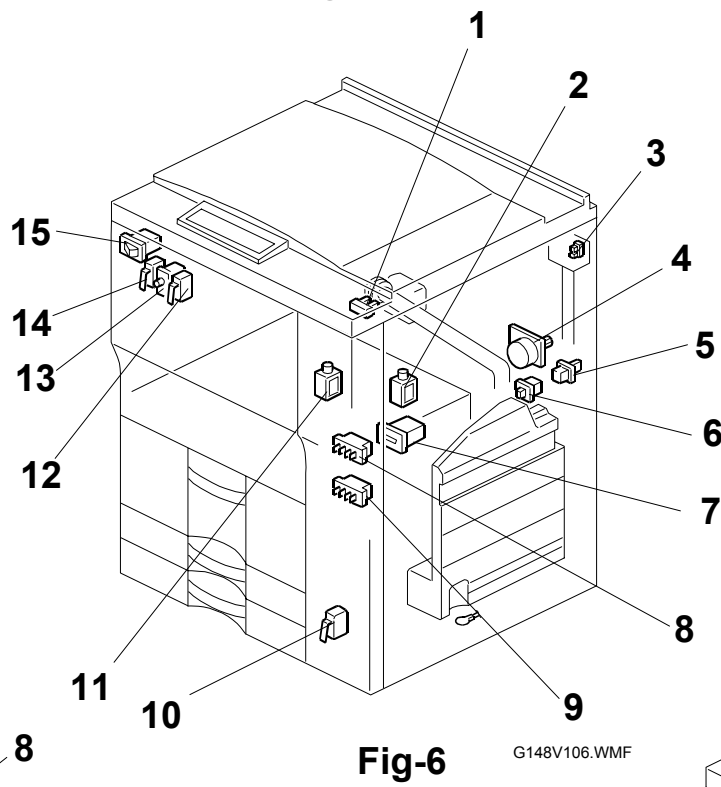
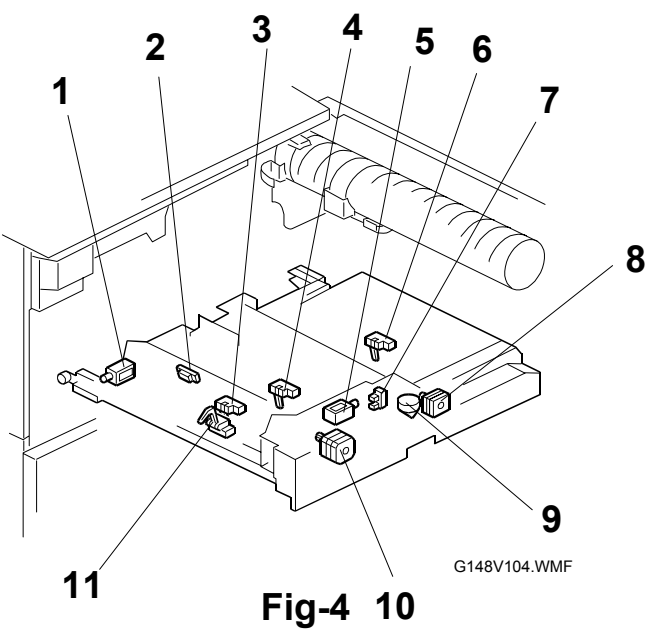
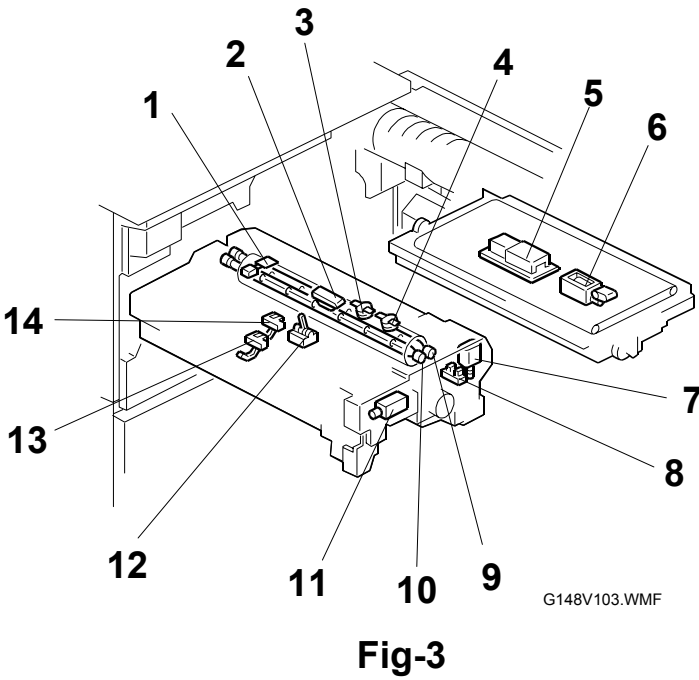
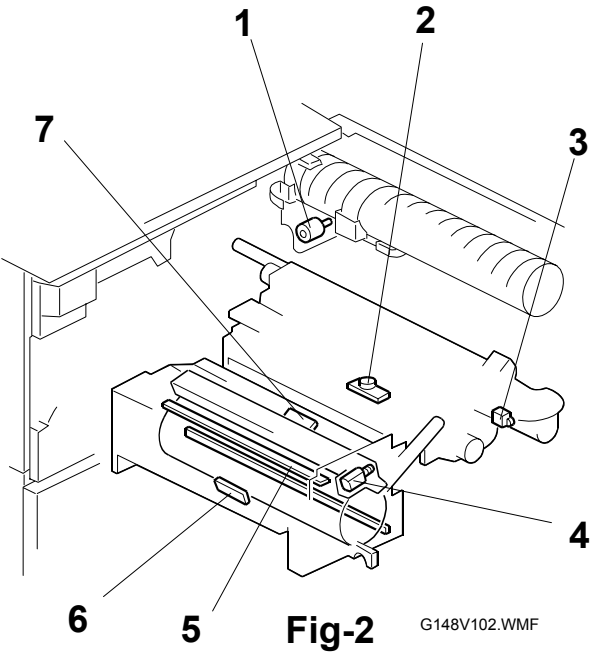
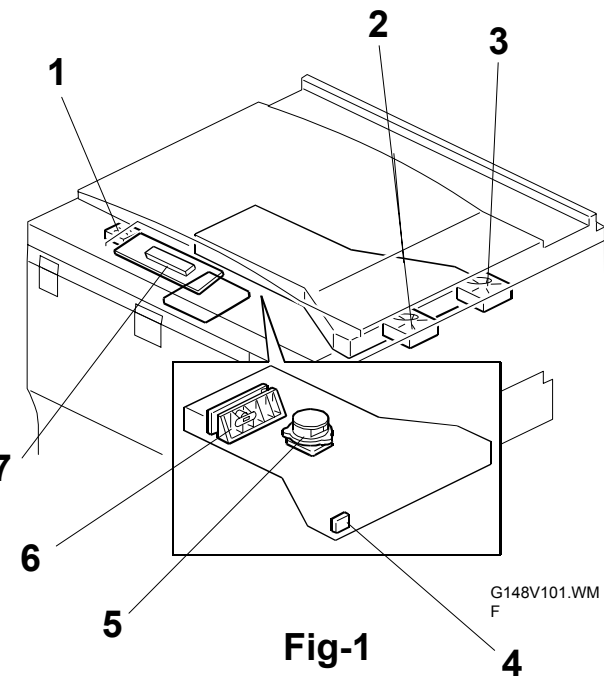
CN305 (CN307)		
Pin#	Signal Name	Pin#
1	GND	1
2	GND	2
3	GND	3
4	GND	4
5	GND	5
6	GND	6
7	GND	7
8	GND	8
9	GND	9
10	GND	10
11	GND	11
12	GND	12
13	GND	13
14	GND	14
15	GND	15
16	GND	16
17	GND	17
18	GND	18
19	GND	19
20	GND	20
21	GND	21
22	GND	22
23	GND	23
24	GND	24
25	GND	25
26	GND	26
27	GND	27
28	GND	28
29	GND	29
30	GND	30
31	GND	31
32	GND	32
33	GND	33
34	GND	34
35	GND	35
36	GND	36
37	GND	37
38	GND	38
39	GND	39
40	GND	40

CN305 (CN306)		
Pin#	Signal Name	Pin#
1	GND	1
2	GND	2
3	GND	3
4	GND	4
5	GND	5
6	GND	6
7	GND	7
8	GND	8
9	GND	9
10	GND	10
11	GND	11
12	GND	12
13	GND	13
14	GND	14
15	GND	15
16	GND	16
17	GND	17
18	GND	18
19	GND	19
20	GND	20
21	GND	21
22	GND	22
23	GND	23
24	GND	24
25	GND	25
26	GND	26
27	GND	27
28	GND	28
29	GND	29
30	GND	30
31	GND	31
32	GND	32
33	GND	33
34	GND	34
35	GND	35
36	GND	36
37	GND	37
38	GND	38
39	GND	39
40	GND	40

CN315		
Pin#	Signal Name	Pin#
1	GND	1
2	GND	2
3	GND	3
4	GND	4
5	GND	5
6	GND	6
7	GND	7
8	GND	8
9	GND	9
10	GND	10
11	GND	11
12	GND	12
13	GND	13
14	GND	14
15	GND	15
16	GND	16
17	GND	17
18	GND	18
19	GND	19
20	GND	20
21	GND	21
22	GND	22
23	GND	23
24	GND	24
25	GND	25
26	GND	26
27	GND	27
28	GND	28
29	GND	29
30	GND	30
31	GND	31
32	GND	32
33	GND	33
34	GND	34
35	GND	35
36	GND	36
37	GND	37
38	GND	38
39	GND	39
40	GND	40

CN316		
Pin#	Signal Name	Pin#
1	GND	1
2	GND	2
3	GND	3
4	GND	4
5	GND	5
6	GND	6
7	GND	7
8	GND	8
9	GND	9
10	GND	10
11	GND	11
12	GND	12
13	GND	13
14	GND	14
15	GND	15
16	GND	16
17	GND	17
18	GND	18
19	GND	19
20	GND	20
21	GND	21
22	GND	22
23	GND	23
24	GND	24
25	GND	25
26	GND	26
27	GND	27
28	GND	28
29	GND	29
30	GND	30
31	GND	31
32	GND	32
33	GND	33
34	GND	34
35	GND	35
36	GND	36
37	GND	37
38	GND	38
39	GND	39
40	GND	40

G148 ELECTRICAL COMPONENT LAYOUT (1/2)



G148 ELECTRICAL COMPONENT LAYOUT (2/2)

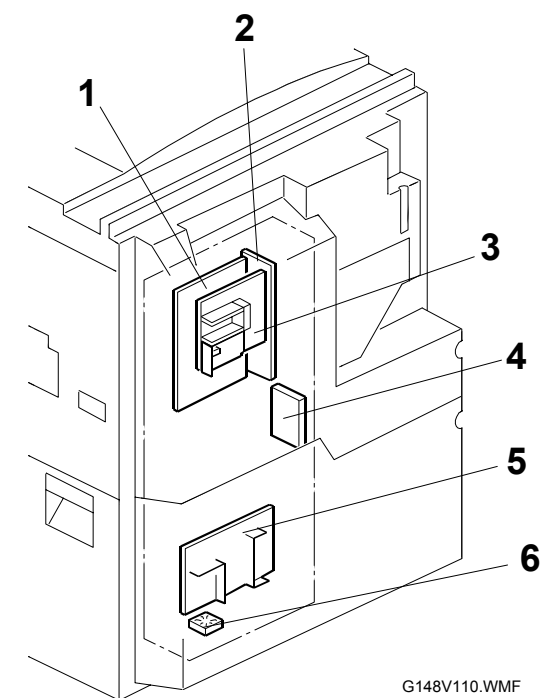


Fig-10

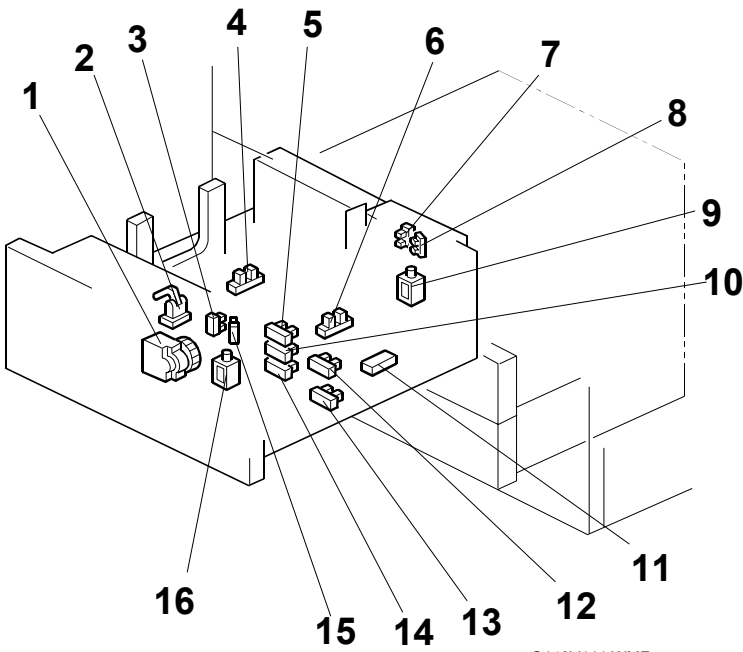


Fig-11

Symbol	Fig.No.	Index No.	Description	P to P
Motors				
M1	7	3	Drum	A1
M2	7	2	Fusing/Exit	A1
M3	7	7	Development	B1
M4	4	10	Duplex Inverter	A7
M5	4	8	Duplex Transport	A7
M6	7	9	Registration	A7
M7	5	9	Lower Relay	A7
M8	3	7	Web	D7
M9	2	4	Charge Corona Wire Cleaner	E7
M10	4	9	Jogger	G7
M11	2	1	Toner Supply	I7
M12	1	5	Polygonal Mirror	I1
M13	7	10	2nd Paper Feed	A11
M14	5	1	1st Paper Feed	A12
M15	5	19	3rd Paper Feed	A12
M16	5	18	4th Paper Feed	A12
M17	7	13	2nd Tray Lift	B13
M18	7	14	3rd Tray Lift	B13
M19	7	12	1st Tray Lift	B14
M20	6	4	Toner Collection	A14
M21	11	1	Rear Fence	E13
Switches				
SW1	6	12	Front Cover Safety 1	H4
SW2	6	14	Front Cover Safety 2	I4
SW3	6	13	Front Door Safety	A4
SW4	6	8	2nd Paper Size	A13
SW5	6	9	3rd Paper Size	A13
SW6	6	6	Toner Collection Bottle Set	A14
SW7	6	5	Toner Overflow	A14
SW8	6	10	Lower Front Door Safety	D11
SW9	6	15	Main	F8

Symbol	Fig.No.	Index No.	Description	P to P
Sensors				
S1	6	3	Toner Collection Motor	D6
S2	3	8	Web End	D7
S3	3	14	Exit Unit Entrance	E7
S4	3	13	Paper Exit	E7
S5	2	6	Image Density (ID)	E7
S6	2	7	Drum Potential	E7
S7	4	11	Duplex Entrance	F6
S8	4	3	Duplex Inverter	F6
S9	4	2	Duplex Transport 1	F6
S10	4	7	Duplex Jogger HP	F6
S11	4	4	Duplex Transport 2	F6
S12	4	6	Duplex Transport 3	F6
S13	6	1	Toner Collection Coil	G6
S14	2	3	Toner End	H7
S15	2	2	Toner Density (TD)	H7
S16	8	1	Registration	H7
S18	8	2	Relay	I6
S19	8	3	Guide Plate Position	I6
S20	5	2	1st Paper Feed	A9
S21	5	3	1st Vertical Transport	A9
S22	5	4	1st Paper End	A9
S23	5	5	1st Tray Lift	A9
S24	5	21	2nd Paper Feed	B10
S25	5	22	2nd Vertical Transport	B10
S26	5	23	2nd Paper End	B10
S27	5	6	2nd Tray Lift	B10
S28	5	17	3rd Paper Feed	B11
S29	5	16	3rd Vertical Transport	B11
S30	5	15	3rd Paper End	B11
S31	5	14	3rd Tray Lift	B11
S32	11	3	Front Side Fence Open	E12
S33	11	15	Front Side Fence Close	E12
S34	11	8	Rear Side Fence Open	E12
S35	11	7	Rear Side Fence Close	E12
S36	11	13	Right Tray Down	E12
S37	11	12	Near End	E12
S38	11	5	Paper Height 1	E12
S39	11	10	Paper Height 2	E12
S40	11	14	Paper Height 3	E13
S41	11	11	Right Tray Paper	E13
S42	11	4	Rear Fence HP	E13
S43	11	6	Rear Fence Return	E14
S44	11	2	Left Tray Paper	E14
S45	3	12	Fusing Exit	I9
Fans				
FAN1	7	4	Exhaust	C7
FAN2	7	5	Charge P.P. Cooling	C7
FAN3	1	2	Development Unit Cooling1	C7
FAN4	1	3	Development Unit Cooling2	C7
FAN5	7	6	Drum Cooling	C7
FAN6	7	1	PCU Cooling	E7
FAN7	1	1	Toner Cooling	F4
FAN8	7	11	Duplex Cooling	I7
FAN9	9	8	PSU Cooling	E10
FAN10	9	9	PSU Cooling	E10
FAN11	10	6	Bottom Side Cooling	E20

Symbol	Fig.No.	Index No.	Description	P to P
Solenoids				
SOL1	3	11	Exit Junction Gate	D7
SOL2	4	5	Reverse Trigger Roller	F7
SOL3	4	1	Duplex Junction Gate	F7
SOL4	3	6	Transfer Belt Lift	G7
SOL5	8	4	Guide Plate	I7
SOL6	5	7	1st Pick-up	A9
SOL7	5	8	1st Separation Roller	A10
SOL8	5	10	2nd Pick-up	A10
SOL9	5	11	2nd Separation Roller	A10
SOL10	5	12	3rd Pick-up	A11
SOL11	5	13	3rd Separation Roller	A11
SOL12	11	16	Front Side Fence	E13
SOL13	11	9	Rear Side Fence	E13
SOL14	6	2	Right Tray Lock	D14
SOL15	6	11	Left Tray Lock	D14
PCBs				
PCB1	9	5	CNB	D3
PCB2	9	6	DRB	A5
PCB3	9	4	IOB	E5
PCB4	10	1	IPU	G3
PCB5	1	6	LDB	H3
PCB6	9	11	BCU (Base Engine Control Unit)	J5
PCB7	1	7	OPU	G4
PCB8	9	10	PFC (Paper Feed Control)	C10
PCB9	9	7	PSU	F10
PCB10	10	5	CTL_PSU	G13
PCB11	9	1	SWB1	I12
PCB12	9	2	SWB2	J12
PCB13	10	3	Controller	D18
PCB14	10	2	MB	E19
Lamps				
L1	2	5	Quenching Lamp	E7
L2	3	9	Fusing Lamp 1	I10
L3	3	10	Fusing Lamp 2	I10
Power Packs				
PP1	9	3	Charge	C6
PP2	9	12	Development	G6
PP3	3	5	Transfer	H7
Others				
CO1	6	7	Mechanical Counter	H1
CL1	7	8	Toner Supply	B1
H1	5	20	Drum	G8
H2	5	25	Lower Tray	G8
H3	5	24	Upper Tray	G8
LSD1	1	4	Laser Synchronization Detector	I1
TH1	3	1	Thermistor 1	I9
TH2	3	2	Thermistor 2	I9
TS1	3	4	Thermostat 1	I10
TS2	3	3	Thermostat 2	I10
HDD1	10	4	HDD	E20